

28. The only coins that Alexis has are dimes and quarters. Her coins have a total value of \$5.80. She has a total of 40 coins. Write a system of equations that can be used to find the number of dimes, d, and the number of quarters, q, 10d+.25q=5.80 d+q=40 Alexis has.

29. The surface area S of a sphere of radius r is given by $S = 4\pi r^2$. Solve for r in-terms of S.

30. The equation for an object that is launched from the ground is given by $h(t) = -16t^2 + v_0t$ where h is the height, t is the time, and v_0 is the initial velocity. What is the initial velocity of an object that is one-hundred feet off the ground four seconds after it is launched? $100 = -16(4)^2 + 100^4$



a)
$$5(x + 3) = 3x = 55$$

 $5x + 15(3x) = 55$
 $2x = 40$
 $x = 20$

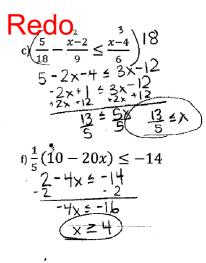
$$d)\frac{7}{3}y - 8 = 11\frac{1}{8}$$

$$\frac{3}{7} \cdot \frac{7}{3}y = 119 \cdot \frac{3}{7}$$

$$y = 6$$

b)
$$5x^{2} + 10x = 90$$

 $5x^{2} + (0x - 90 = 0)$
 $5(x^{2} + 2x - 18) = 0$
 $-2 \pm \sqrt{2^{2} - 4(1)(-18)}$
 $-2 \pm \sqrt{2^{2} - 4(1)(-18)}$
 $-2 \times 4 + 9 < 8(\frac{1}{3}x - 2)$
 $-2 \times 4 + 9 < 8(\frac{1}{3}x - 2)$
 $-2 \times 4 + 9 < 8(\frac{1}{3}x - 2)$
 $-2 \times 4 + 16 - 3 \times 16$



$$g) x^2 = 49$$

$$X = \frac{1}{2}$$

h)
$$3x^{2} + 9 = 72$$

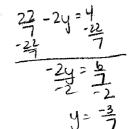
 $3x^{2} = 63$
 $3x^{2} = 21$
 $x = \pm \sqrt{21}$

i)
$$(x-4)^2 - 25 = 0$$

 $(x^2 - 8x + 16) - 25 = 0$
 $x^2 - 8x - 9 = 0$
 $(x-9)(x+1) = 0$
 $x=9$

32. Jackson observed a graph with a y-intercept of 7 that passes through the point (2, 3). What is the slope of the line of Jackson's graph? 4= mx+b

	is the solution
1X-3	2/=4
6x+	20=18
IX	= 24
7	x= == /





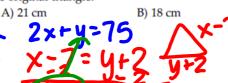
EOC Review: Systems

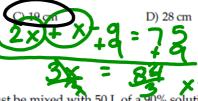
Math 1 Homework

Name:

Date:_

1 The perimeter of a triangle is 75 cm. The triangle is isosceles now, but if its base were lengthened by 2 cm and each leg were shortened by 7 cm, it would be equilateral. Find the length of the base of the original triangle.





(L) of a 10% alcohol solution must be mixed with 50 L of a 90% solution to get a 2. How ma 50% solution?





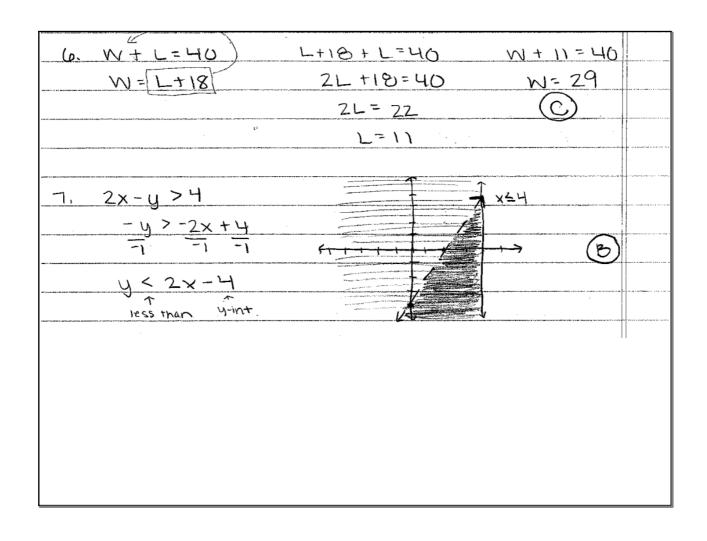


- 3. How many liters (L) of a 10% silver iodide solution must be mixed with 9 L of a 4% silver iodide solution to get a 6% solution?
 - A) 4.5 L
- B) 9.0 L
- C) 5.5 L
- D) 3.5 L

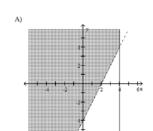
1. Systems Worksheet

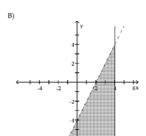
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	. 9	*3	y+2	April - spore, - nameng grape a banguar sange-, ata quai gasa han an artis ban sanara sanara sanara sanara san	and the finance of the control of the angular control of the first and the first of the control of of
gregorie e gramme, angle op 2000 il liste in a second and	2×	+ 4 = 7	5	2(4+9) +4=75	3y=51
any pianta y kampunya isa	1	~		2y +18 + y=75	y=19
na wanganana ana ayan	· · · · · · · · · · · · · · · · · · ·	x= 4+9		3y + 18 = 75	
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2		·/-	Amt	16x + 90(50) = 50	2(x+≥0)
والاردة والاردة	MIX A	-10	X	10 × + 4500 = 50	X + 2500
	Mix B	90	50,	2000 = 40	
	Total =	50	x+56	X = 50	<u>D</u>
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3,		+ 1.	Amt	10x + 4(9) = 6	(X+9)
and the second second second	MIX A	10	Committee description and contract of the Cont	10x + 30 = 6	X+54
	Mix B	4	٩	4 x = 18	
	Total	16	Xt9	X= 4,5	(A)
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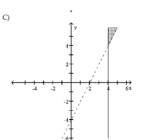
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tuninging yang hiji ng	MIX B	17	4	والإنجاز المحاولة المساورة والمحاولة	ZH =	4×	gar kijinenenghanin sama sama yan sanin 152 yile dangdana sa g
ar samannagana a a se sa casa da da	Total		X+Y	เพลงเกมสมุนรุงสรรรมแบบ สมุนทุกสมุนระสมุนราช เพิ่มการ เพิ่มสมุนราช เพลง (เพลง) (เพลง) (เพลง) (เพลง) (เพลง) (เพล	and the content to the content of th	G.	(C)
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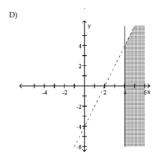


7. Graph |2x - y| > 4 and $x \le 4$

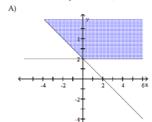


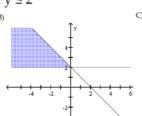


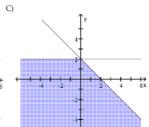


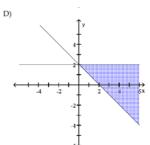


8. Graph $x + y \ge 2$ and $y \le 2$









Select the coordinate point that is a solution to this system of equations.

$$2x + y = 7$$

 $3x - 4y = 5$

- a) (-1,9)
- b) (-3,-1)
- c) (7,4)
- d) (3,1)

Solve this system of equations: x = 2y - 84x + y = 13

- a) (2,-5)
- b) (-2,5)
- c) (2,5)
- d) (-2,-5)

should he mix with 4 b A) 8 bags	acrete from bags of pre-m pags of 17% cement to pro B) 10 bags	oduce a mix containing 119 C) 6 bags	
A) o bags	b) 10 bags	C) o bags	D) 13 bags
5. A sum of money amou	nting to \$3.70 consists of	dimes and quarters. If the	ere are 19 coins in a
many are quarters? A) 12 quarters	B) 9 quarters	C) 7 quarters	D) 17 quar
-	nny games did they win t	that season?	
A) 31 games	B) 26 games	C) 29 games	D) 11 gam