















4. The length of a rectangle is 4 cm more than 3 times its width. If the area of the rectangle is 15 cm<sup>2</sup>, find the width.  $3\omega - 5 = 0$   $5\omega - 5 = 0$ 

3w + 4 w(3w + 4) = 15  $3w^{2} + 4w - 15 = 0$   $3w^{2} + 3w + 3 = 5$  3w(w + 3) = 5 3w(w + 3) = 5 3w = 5 3w = 5  $3(\frac{5}{3}) + 4 = 9$  3w(w + 3) = 5  $3(\frac{5}{3}) = \frac{15}{3}$ 

5. One leg of a right triangle is seven more than the other leg. The hypotenuse is eight more than the shorter leg. Find the lengths of the three sides of the triangle.

eight more than the shorter leg. I have the shorter l

Homework - Station 4

Station 4 Answers to Multiplying Polynomials (ID: 1)



1) 
$$2p^2 + 6p - 14$$

2) 
$$24n^2 + 4n - 20$$

3) 
$$12p^3 + 28p^2 + 10p + 4$$

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$$2p^2 + 6p - 14$$
 2)  $24n^2 + 4n - 20$  3)  $12p^3 + 28p^2 + 10p + 4$  4)  $35n^3 + 29n^2 + 13n + 3$  5)  $42p^2 - 84p + 42$  6)  $28b^2 + 36b + 8$  7)  $48r^2 - 40r - 8$  8)  $4x^2 - 1$  9)  $n^2 - 49$  10)  $x^2 - 4x + 4$  11)  $64n^2 - 4$  12)  $25n^2 + 80n + 64$  13)  $4k^2 - 4k + 1$  14)  $4x^2 + 20x + 25$ 

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$$42p^2 - 84p + 4$$

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12) 
$$25n^2 + 80n + 64$$

13) 
$$4k^2 - 4k + 1$$

14) 
$$4x^2 + 20x + 25$$