

Bellwork Alg 2A Thursday, September 15, 2016

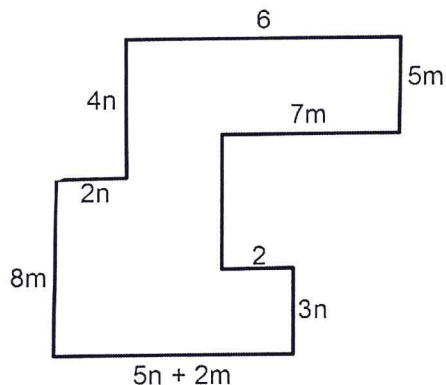
1. Simplify. $-4x - 2x(3x - 4) + 2 - x^2(9x - 1) - 4x^3 + 1 - x$

2. Evaluate each expression for $C = 8$ $D = -12$

a) $D^2 - 7CD$

b) $8(2C - D) + 2(2C - D)$

3. Write an expression for the perimeter of this figure. All angles are right angles.



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Answers

1. Simplify. $-4x - 2x(3x - 4) + 2 - x^2(9x - 1) - 4x^3 + 1 - x$

$$\underline{-4x} - \underline{6x^2} + \underline{8x} + \underline{2} - \underline{9x^3} + \underline{x^2} - \underline{4x^3} + \underline{1} - \underline{x}$$

$$\underline{-13x^3 - 5x^2 + 3x + 3}$$

2. Evaluate each expression for $C = 8$ $D = -12$

a) $D^2 - 7CD$

$$(-12)^2 - 7(8)(-12)$$

$$144 + 672 = 816$$

b) $8(2C - D) + 2(2C - D) = 10(2C - D)$

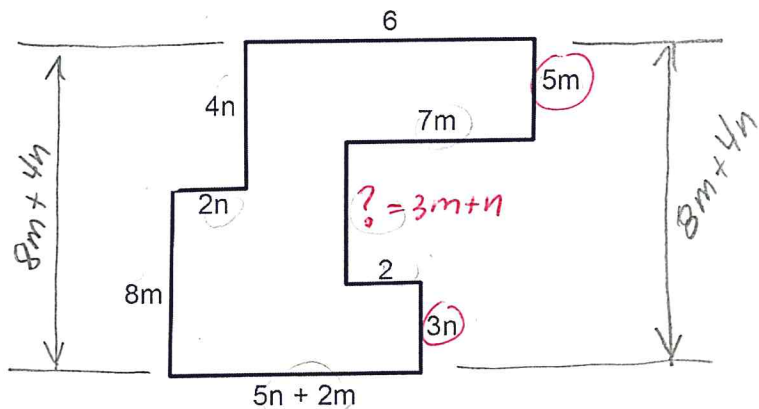
$$= 10(2(8) - (-12))$$

$$= 10(16 + 12)$$

$$= 10(28)$$

$$= 280$$

3. Write an expression for the perimeter of this figure. All angles are right angles.



$$? = 8m + 4n - (5m + 3n) = 3m + n$$

$$\text{Perimeter} = 25m + 15n + 8$$

$$= \underline{5n+2m} + \underline{3n} + \underline{2} + \underline{3m+n} + \underline{7m} + \underline{5m} + \underline{6} + \underline{4n} + \underline{2n} + \underline{8m}$$