



March 12, 2019, Tuesday

1. What is the product of  $7x - 4$  and  $8x + 5$ ?  $(7x - 4)(8x + 5)$

A.  $15x + 1$   
 B.  $30x + 2$   
 C.  $56x^2 + 3x - 20$   
 D.  $56x^2 - 3x + 20$

$56x^2 + 35x - 32x - 20$   
 $56x^2 + 3x - 20$

2. A model of a house is shown.

$6x - 4$ ,  $8x - 4$ ,  $12x + 3$ ,  $14x + 13$ ,  $12x + 3$ ,  $50x + 11$

What is the perimeter, in units, of the model?

A.  $32x + 12$   
 B.  $46x + 26$   
 C.  $60x + 1$   
 D.  $64x + 24$

Mar 6-8:42 AM

Factor by GCF:  $54b^3 + 48b^2 = 6b^2(9b + 8)$

Factor by DOTS (Difference of 2 Squares):  $a^2 - b^2 = (a + b)(a - b)$

$9m^2 - 27m + 9m^3 = 3m(3m - 3 + m^2) = 3m(m - 3 + m^2)$

$4x^2 - 16 = (2x)^2 - (4)^2 = (2x + 4)(2x - 4)$

Factor by  $a \neq 1$  (Bottoms Up Method):  $x^2 - 15x + 56 = (x - 7)(x - 8)$

$2x^2 + 2x - 4 = 2(x^2 + x - 2) = 2(x - 1)(x + 2)$

$20x^2 - 38x + 12 = (3x + 8)(\dots)$

Mar 6-8:42 AM

$20x^2 - 38x + 12 = 2(10x^2 - 19x + 6)$

$2(x - 4)(x - 15)$

$2(x - \frac{3}{2})(x - \frac{3}{2})$

$2(5x - 2)(2x - 3)$

Mar 12-9:21 AM

March 13, 2019, Wednesday

1. Which expression is equivalent to  $121x^2 - 64y^2$ ?

A.  $(11x - 16y)(11x + 16y)$   
 B.  $(11x - 16y)(11x - 16y)$   
 C.  $(11x + 8y)(11x + 8y)$   
 D.  $(11x + 8y)(11x - 8y)$

2. What is a common factor for the expression  $24x^2 + 16x + 144$ ?

A. 16  
 B. 8x  
 C.  $3x^2 + 2x + 18$   
 D.  $8(x - 2)(3x^2 + 9)$

3. Which of these shows the complete factorization of  $6x^2 - 9xy - 42$ ?

A.  $3(2x^2 - 7)(xy^2 + 2)$   
 B.  $(3x + 6)(2xy - 7)$   
 C.  $3(2xy - 7)(xy + 2)$   
 D.  $(3x^2 + 6)(2xy^2 - 7)$

...quiz

Mar 6-8:44 AM

March 14, 2019, Thursday

Consider the expression  $3n^2 + n + 2$ .

a. What is the coefficient of  $n$ ? |

b) What is the coefficient of  $n^2$ ? | 3

Factor the expression  $16q^2 - 81$ .

$(4q)^2 - (9)^2 = (4q + 9)(4q - 9)$

Factor the expression  $12x^2 + 7x - 2$ .

$2(6x^2 + 7x - 3) = 2(x - \frac{1}{2})(x + \frac{3}{2}) = 2(3x - 1)(2x + 3)$

Mar 6-8:59 AM

Quiz

1:2 only have a GCF

3-6 choose 3

7-10 choose 3

Mar 13-9:03 AM

