

3-13-20

Factor each into a product of binomials.

1.  $x^2 - 64$

2.  $4x^2 - 9$

3.  $x^2 - 8x + 12$

4.  $x^2 - 4x - 21$

Factor out the greatest common monomial.

5.  $3x^4y^2 - 12x^3y + 6x^2$

Factor each into a product of binomials.

1.  $x^2 - 64$

$(x - 8)(x + 8)$

2.  $4x^2 - 9$

$(2x + 3)(2x - 3)$

3.  $x^2 - 8x + 12$

$a: 1 \quad b: -8 \quad c: 12$

$\begin{matrix} + & + \\ 2 & 6 \\ \hline 3 & 4 \end{matrix} \quad (x - 2)(x - 6)$

4.  $x^2 - 4x - 21$

$a: 1 \quad b: -4 \quad c: -21$

$\begin{matrix} + & - \\ 3 & 7 \end{matrix} \quad (x + 3)(x - 7)$

Factor out the greatest common monomial.

5.  $3x^4y^2 - 12x^3y + 6x^2$

$x^2(3x^2y^2 - 12xy + 6)$

$3x^2(x^2y^2 - 4xy + 2)$

$$x^2 - 14x + 40$$

$$(x - 10)(x - 4)$$

$$36x^2 - 25$$

$$(6x + 5)(6x - 5)$$

$$x^2 - 8x - 33$$

$$(x - 11)(x + 3)$$

$$x^2 + 7x - 8$$

$$(x + 8)(x - 1)$$

When you're done with the quiz....

Work on your summary sheets. You can do everything except

A ≠ 1 Guess and Check