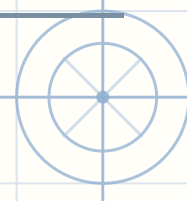


Factoring quadratics — Both numbers negative

Name: _____

Date: _____



Factor each one. Both numbers are negative — write them with their signs.

1 $x^2 - 32x + 231 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

2 $x^2 - 46x + 529 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

3 $x^2 - 29x + 210 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

4 $x^2 - 20x + 64 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

5 $x^2 - 9x + 14 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

6 $x^2 - 4x + 4 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

7 $x^2 - 27x + 50 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$

8 $x^2 - 30x + 176 = (x + \underline{\hspace{1cm}}) (x + \underline{\hspace{1cm}})$



Factoring quadratics · Both numbers negative — Answer key

1. $x^2 - 32x + 231 = (x - 21)(x - 11)$ (-21 and -11)

2. $x^2 - 46x + 529 = (x - 23)(x - 23)$ (-23 and -23)

3. $x^2 - 29x + 210 = (x - 15)(x - 14)$ (-15 and -14)

4. $x^2 - 20x + 64 = (x - 4)(x - 16)$ (-4 and -16)

5. $x^2 - 9x + 14 = (x - 2)(x - 7)$ (-2 and -7)

6. $x^2 - 4x + 4 = (x - 2)(x - 2)$ (-2 and -2)

7. $x^2 - 27x + 50 = (x - 2)(x - 25)$ (-2 and -25)

8. $x^2 - 30x + 176 = (x - 8)(x - 22)$ (-8 and -22)