

Factoring Trinomials

Factor each completely.

1 $p^2 + 6p + 5$

2 $r^2 + 3r + 2$

3 $a^2 - 8a + 15$

4 $s^2 + s - 6$

5 $y^2 - y - 20$

6 $x^2 + 6x + 8$

7 $x^2 - 14x + 48$

8 $a^2 + 19a + 90$

9 $q^2 + 4q - 12$

10 $v^2 - 7v + 10$

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Answers

1 $p^2 + 6p + 5$

$$\frac{(p + 1)(p + 5)}{\underline{\hspace{2cm}}}$$

3 $a^2 - 8a + 15$

$$\frac{(a - 5)(a - 3)}{\underline{\hspace{2cm}}}$$

5 $y^2 - y - 20$

$$\frac{(y - 5)(y + 4)}{\underline{\hspace{2cm}}}$$

7 $x^2 - 14x + 48$

$$\frac{(x - 8)(x - 6)}{\underline{\hspace{2cm}}}$$

9 $q^2 + 4q - 12$

$$\frac{(q - 2)(q + 6)}{\underline{\hspace{2cm}}}$$

2 $r^2 + 3r + 2$

$$\frac{(r + 2)(r + 1)}{\underline{\hspace{2cm}}}$$

4 $s^2 + s - 6$

$$\frac{(s + 3)(s - 2)}{\underline{\hspace{2cm}}}$$

6 $x^2 + 6x + 8$

$$\frac{(x + 4)(x + 2)}{\underline{\hspace{2cm}}}$$

8 $a^2 + 19a + 90$

$$\frac{(a + 9)(a + 10)}{\underline{\hspace{2cm}}}$$

10 $v^2 - 7v + 10$

$$\frac{(v - 5)(v - 2)}{\underline{\hspace{2cm}}}$$