

## 14.1 Practice

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**Factor each completely.**

1)  $x^2 - x - 10$

Not factorable

2)  $m^2 + 4m - 5$

$(m - 1)(m + 5)$

3)  $m^2 + 5m - 36$

$(m - 4)(m + 9)$

4)  $n^2 + 11n + 18$

$(n + 9)(n + 2)$

5)  $p^2 - 2p - 35$

$(p + 5)(p - 7)$

6)  $x^2 - 5x + 40$

Not factorable

7)  $n^2 - 10n + 9$

$(n - 9)(n - 1)$

8)  $r^2 + r - 12$

$(r - 3)(r + 4)$

9)  $n^2 - 13n + 36$

$(n - 4)(n - 9)$

10)  $p^2 - 2p - 8$

$(p + 2)(p - 4)$

$$11) x^2 + 5x + 6$$

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

$$12) v^2 - 11v + 30$$

$$(v - 6)(v - 5)$$

$$13) x^2 - 8x + 7$$

$$(x - 7)(x - 1)$$

$$14) n^2 + n - 12$$

$$(n + 4)(n - 3)$$

$$15) a^2 - 5a - 36$$

$$(a - 9)(a + 4)$$

$$16) k^2 + 14k + 49$$

$$(k + 7)^2$$

$$17) x^2 - 4x - 60$$

$$(x + 6)(x - 10)$$

$$18) a^2 + 16a + 63$$

$$(a + 9)(a + 7)$$

$$19) n^2 + 2n + 1$$

$$(n + 1)^2$$

$$20) x^2 + 13x + 30$$

$$(x + 10)(x + 3)$$