

Math 2 Unit 2.4 Examples of Factoring (leading coefficient is prime)**Factor each completely.**

1) $3x^2 - 31x + 10$

2) $7x^2 - 76x + 60$

3) $3n^2 - 19n + 28$

4) $5x^2 + 56x + 60$

5) $3b^2 - 2b - 40$

6) $3b^2 + 11b - 42$

7) $5n^2 + 17n + 6$

8) $3x^2 + 22x - 80$

9) $7n^2 + 18n - 40$

10) $7n^2 + 65n + 72$

$$11) \ 7x^2 + 50xy - 48y^2$$

$$12) \ 7u^2 + 39uv + 20v^2$$

$$13) \ 3u^2 - 37uv + 90v^2$$

$$14) \ 2x^2 + 7xy + 6y^2$$

$$15) \ 5m^2 - 13mn + 6n^2$$

$$16) \ 7x^2 + 68xy - 20y^2$$

$$17) \ 5m^2 - 49mn - 10n^2$$

$$18) \ 3m^2 - 34mn + 80n^2$$

$$19) \ 7x^2 - 27xy - 40y^2$$

$$20) \ 2x^2 + 7xy - 4y^2$$

Math 2 Unit 2.4 Examples of Factoring (leading coefficient is prime)

Factor each completely.

1) $3x^2 - 31x + 10$

$$(3x - 1)(x - 10)$$

2) $7x^2 - 76x + 60$

$$(7x - 6)(x - 10)$$

3) $3n^2 - 19n + 28$

$$(3n - 7)(n - 4)$$

4) $5x^2 + 56x + 60$

$$(5x + 6)(x + 10)$$

5) $3b^2 - 2b - 40$

$$(3b + 10)(b - 4)$$

6) $3b^2 + 11b - 42$

$$(3b - 7)(b + 6)$$

7) $5n^2 + 17n + 6$

$$(5n + 2)(n + 3)$$

8) $3x^2 + 22x - 80$

$$(3x - 8)(x + 10)$$

9) $7n^2 + 18n - 40$

$$(7n - 10)(n + 4)$$

10) $7n^2 + 65n + 72$

$$(7n + 9)(n + 8)$$

$$11) \ 7x^2 + 50xy - 48y^2$$

$$(7x - 6y)(x + 8y)$$

$$12) \ 7u^2 + 39uv + 20v^2$$

$$(7u + 4v)(u + 5v)$$

$$13) \ 3u^2 - 37uv + 90v^2$$

$$(3u - 10v)(u - 9v)$$

$$14) \ 2x^2 + 7xy + 6y^2$$

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

$$15) \ 5m^2 - 13mn + 6n^2$$

$$(5m - 3n)(m - 2n)$$

$$16) \ 7x^2 + 68xy - 20y^2$$

$$(7x - 2y)(x + 10y)$$

$$17) \ 5m^2 - 49mn - 10n^2$$

$$(5m + n)(m - 10n)$$

$$18) \ 3m^2 - 34mn + 80n^2$$

$$(3m - 10n)(m - 8n)$$

$$19) \ 7x^2 - 27xy - 40y^2$$

$$(7x + 8y)(x - 5y)$$

$$20) \ 2x^2 + 7xy - 4y^2$$

$$(2x - y)(x + 4y)$$