

Factor monomials ① Factor out GCF

ex.  $\frac{3x}{3} + \frac{6}{3}$

$$3(x + 2)$$

ex.  $\frac{12x^3}{2x} - \frac{6x^2}{2x} + \frac{2x}{2x}$

$$2x(6x^2 - 3x + 1)$$

ex.  $5x^4y^2 - 10x^3y^3 + 25x^2y^4$

$$5x^2y^2(x^2 - 2xy + 5y^2)$$

Factoring the difference of 2 squares

ex.  $x^2 - 9$

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

ex.  $25x^6 - 16y^4$

$$(5x^3 - 4y^2)(5x^3 + 4y^2)$$

$$\begin{aligned}
 \sqrt{1} &= 1 \\
 \sqrt{4} &= 2 \\
 \sqrt{9} &= 3 \\
 \sqrt{16} &= 4 \\
 \sqrt{25} &= 5 \\
 \sqrt{36} &= 6 \\
 \sqrt{49} &= 7 \\
 \sqrt{64} &= 8 \\
 \sqrt{81} &= 9 \\
 \sqrt{100} &= 10 \\
 \sqrt{121} &= 11 \\
 \sqrt{144} &= 12 \\
 \sqrt{169} &= 13 \\
 \sqrt{196} &= 14 \\
 \sqrt{225} &= 15
 \end{aligned}$$

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