

Pre-AP Precalculus

Unit 2 Pre-Assessment

Factoring

Factor the following expressions completely.

1] $24x^2y + 34xy + 12y$

2] $9x^2 + 12x + 4$

3] $-2x^3 - 6x^2 + 56x$

Properties of Exponents

Simplify the following expressions.

4] $(2x^43)^{-1}$

5] $\frac{6x^{-1}}{4x^4}$

6] $\frac{2x^4y^{-4}z^{-3}}{3x^2y^{-3}z^4}$

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Equations

Solve the following.

$$7] x - 4(x - 3(1 - x)) = 42$$

$$8] \frac{5}{3}(x + 2) = \frac{1}{2} - x$$

$$9] 2(x + 5) - 3 = 3(x - 8) + 21$$

$$10] U(V + 2) + W(V - 3) = Z(V - 1), \quad \text{for } V$$

$$11] \frac{AT - B}{C - B(1 - 2T)} = 3, \quad \text{for } T$$