

Unit 5.5 Introduction to Polynomial Factoring

1. Find the GCF of the two monomials

a. $15y^3$ and $10x^2$ _____

b. $6m^2$ and $8b$ _____

2. Fully factor the following

a. $14 - 2x \rightarrow$ _____

b. $18 - 12w \rightarrow$ _____

c. $11m^2 - 22m \rightarrow$ _____

d. $8u(3u + 2) + (3u + 2) \rightarrow$ _____

3. Fully factor the following

a. $z^2 + 14z + 24 \rightarrow$ _____

b. $x^2 - 10x - 39 \rightarrow$ _____

c. $7x^2 - 15x + 8 \rightarrow$ _____

d. $21x^2 + 23x - 20 \rightarrow$ _____

4. Solve for x

a. $5(x - 3)(-x + 4) = 0$ $x =$ _____

b. $(4x + 3)(4 + x) = 0$ $x =$ _____