

Factoring- STATION 3

Date _____ Period _____

Factor each.

1) $x^8 - 34x^4 + 225 = 0$

2) $x^6 + 63x^3 - 64 = 0$

3) $x^6 - 26x^3 - 27 = 0$

4) $x^7 + 9x^4 + 8x = 0$

5) $x^6 - 3x^4 - x^2 + 3 = 0$

6) $x^8 - 64x^2 = 0$

7) $x^6 + 28x^3 + 27 = 0$

8) $x^6 - 1 = 0$

9) $x^7 - x = 0$

10) $x^8 - 26x^4 + 25 = 0$

Answers to Factoring- STATION 3 (ID: 1)

1) $(x^2 - 5)(x^2 + 5)(x^2 - 3)(x^2 + 3) = 0$

3) $(x + 1)(x^2 - x + 1)(x - 3)(x^2 + 3x + 9) = 0$

5) $(x^2 - 3)(x - 1)(x + 1)(x^2 + 1) = 0$

7) $(x + 1)(x^2 - x + 1)(x + 3)(x^2 - 3x + 9) = 0$

9) $x(x - 1)(x^2 + x + 1)(x + 1)(x^2 - x + 1) = 0$

2) $(x - 1)(x^2 + x + 1)(x + 4)(x^2 - 4x + 16) = 0$

4) $x(x + 2)(x^2 - 2x + 4)(x + 1)(x^2 - x + 1) = 0$

6) $x^2(x - 2)(x^2 + 2x + 4)(x + 2)(x^2 - 2x + 4) = 0$

8) $(x - 1)(x^2 + x + 1)(x + 1)(x^2 - x + 1) = 0$

10) $(x^2 - 5)(x^2 + 5)(x - 1)(x + 1)(x^2 + 1) = 0$