

Class Time Examples

Date _____

Factor each.

1) $x^5 + 5x^3 - 6x = 0$

2) $x^3 - 125 = 0$

3) $x^4 + 2x^2 - 63 = 0$

4) $x^4 - 16x^2 + 64 = 0$

5) $x^5 - 13x^3 + 42x = 0$

6) $x^3 - 3x^2 + 3x - 9 = 0$

7) $x^4 + 2x^2 - 3 = 0$

8) $x^6 + 3x^4 - 16x^2 - 48 = 0$

Answers to Class Time Examples

- 1) $x(x-1)(x+1)(x^2+6)=0$ 2) $(x-5)(x^2+5x+25)=0$ 3) $(x^2-7)(x^2+9)=0$
4) $(x^2-8)^2=0$ 5) $x(x^2-7)(x^2-6)=0$ 6) $(x-3)(x^2+3)=0$
7) $(x^2+3)(x-1)(x+1)=0$ 8) $(x^2+3)(x-2)(x+2)(x^2+4)=0$

