

Thursday SLOT- GCF

Factor and solve the following (if possible):

1. $2x^3 - 4x^2 + 6x = 0$

$\overline{2x} \overline{2x} \overline{2x}$

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

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

$2x = 0$

$x = 0$

$x^2 - 2x + 3 = 0$

2. $5x^4 - 10x^2 + 35 = 0$

$\overline{x^2} \overline{x^2}$

$5x(x^2 - 2 + 7) = 0$

$5x = 0$

$5(x^4 - 2x^2 + 7) = 0$

$\cancel{5} \neq 0$

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

3. $3x^4 - 6x = 0$

$\cancel{3x} \cdot x \cdot x \cdot x$
 $\cancel{3x}$

$3x(x^3 - 2) = 0$

$3x = 0$

$x = 0$

$x^3 - 2 = 0$
 $+2$

$\sqrt[3]{x^3} = \sqrt[3]{2}$

$x = \sqrt[3]{2}$