

1.4 Dividing Polynomials

Day 4

3/26/15

$$\begin{array}{r}
 671 \\
 2 \overline{) 1342} \\
 \underline{-12} \\
 14 \\
 \underline{-14} \\
 02 \\
 \underline{-2} \\
 0
 \end{array}$$

$$\begin{array}{r}
 31.5 \\
 20 \overline{) 630.0} \\
 \underline{-60} \\
 30 \\
 \underline{-20} \\
 100 \\
 \underline{-100} \\
 0
 \end{array}$$

Mar 26-8:11 AM

Mar 26-9:09 AM

Polynomial Division:

$$(x^2 + 3x + 4) \div (x)$$

$$\begin{array}{r}
 \boxed{x + 3 \text{ R } 4} \\
 \cancel{x} \overline{) x^2 + 3x + 4} \\
 \underline{-x^2} \\
 3x \\
 \underline{-3x} \\
 04
 \end{array}$$

$$(2x^2 - 4x + 6) \div (2x)$$

$$\begin{array}{r}
 \boxed{1x - 2 \text{ R } 6} \\
 2x \overline{) 2x^2 - 4x + 6} \\
 \underline{-2x^2} \\
 -4x \\
 \underline{+4x} \\
 0
 \end{array}$$

Mar 26-9:01 AM

Mar 26-9:16 AM

$$(x^2 + 9x + 22) \div (x + 2)$$

$$\begin{array}{r} x+2 \overline{) x^2+9x+22} \\ \underline{-x^2+2x} \\ 7x+22 \\ \underline{-7x+14} \\ 8 \end{array}$$

Mar 26-9:12 AM

Use polynomial long division to divide $4x^2 + 23x - 16$ by $x + 5$. What is the quotient and remainder?

$$(4x^2 + 23x - 16) \div (x + 5)$$

$$\begin{array}{r} x+5 \overline{) 4x^2+23x-16} \\ \underline{-4x^2+20x} \\ 3x-16 \\ \underline{-3x+15} \\ -31 \end{array}$$

Mar 26-8:11 AM