

Polynomdivision

G.Roofls

$$(x^3 + x^2 - 10x + 8) : (x - 2) =$$

$$(x^3 + x^2 - 10x + 8) : (x - 2) = x^2$$

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— ()

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$$-(x^3 \quad \quad \quad)$$

$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 \\ \underline{-(x^3 - 2x^2)} \end{array}$$

$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 \\ - (x^3 - 2x^2) \\ \hline 3x^2 \end{array}$$

$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 \\ - (x^3 - 2x^2) \\ \hline 3x^2 - 10x \end{array}$$

$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 + 3x \\ - (x^3 - 2x^2) \\ \hline 3x^2 - 10x \end{array}$$

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$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 + 3x \\ - (x^3 - 2x^2) \\ \hline 3x^2 - 10x \\ - (3x^2 - 6x) \\ \hline \end{array}$$

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$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 + 3x - 4 \\ - (x^3 - 2x^2) \\ \hline 3x^2 - 10x \\ - (3x^2 - 6x) \\ \hline -4x + 8 \\ \hline \hline \end{array}$$

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$$(x^3 + 6x^2 + 3x - 10) : (x + 5) =$$

$$\begin{array}{r} (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 + 3x - 4 \\ - (x^3 - 2x^2) \\ \hline 3x^2 - 10x \\ - (3x^2 - 6x) \\ \hline -4x + 8 \\ - (-4x + 8) \\ \hline 0 \end{array}$$

$$(x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2$$

$$\begin{array}{r}
 (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 + 3x - 4 \\
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 3x^2 - 10x \\
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 \hline
 -4x + 8 \\
 - (-4x + 8) \\
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 0
 \end{array}$$

$$(x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x$$

$$\begin{array}{r}
 (x^3 + x^2 - 10x + 8) : (x - 2) = x^2 + 3x - 4 \\
 - (x^3 - 2x^2) \\
 \hline
 3x^2 - 10x \\
 - (3x^2 - 6x) \\
 \hline
 -4x + 8 \\
 - (-4x + 8) \\
 \hline
 0
 \end{array}$$

$$(x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x - 2$$

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$$- (x^3 \quad \quad \quad)$$

$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 \\ - (x^3 + 5x^2) \\ \hline \end{array}$$

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$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x \\ - (x^3 + 5x^2) \\ \hline x^2 + 3x \\ - (x^2) \\ \hline + 3x - 10 \end{array}$$

$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x \\ - (x^3 + 5x^2) \\ \hline x^2 + 3x \\ - (x^2 + 5x) \\ \hline - 2x - 10 \end{array}$$

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$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x - 2 \\ - (x^3 + 5x^2) \\ \hline x^2 + 3x \\ - (x^2 + 5x) \\ \hline - 2x - 10 \\ - () \\ \hline \phantom{- ()} \end{array}$$

$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x - 2 \\ - (x^3 + 5x^2) \\ \hline x^2 + 3x \\ - (x^2 + 5x) \\ \hline - 2x - 10 \\ - (-2x) \\ \hline \phantom{- (-2x)} \end{array}$$

$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x - 2 \\ \underline{-(x^3 + 5x^2)} \\ x^2 + 3x \\ \underline{-(x^2 + 5x)} \\ - 2x - 10 \\ \underline{-(-2x - 10)} \\ 0 \end{array}$$

$$\begin{array}{r} (x^3 + 6x^2 + 3x - 10) : (x + 5) = x^2 + x - 2 \\ - (x^3 + 5x^2) \\ \hline x^2 + 3x \\ - (x^2 + 5x) \\ \hline - 2x - 10 \\ - (-2x - 10) \\ \hline 0 \end{array}$$