

Progress Check: Synthetic Division and Remainder Theorem (CP)

Name: _____

1. a) Divide using Synthetic Division: $x^3 + 3x^2 - 18x - 40 \div x - 4$

b) Is $x - 4$ a factor of $x^3 + 3x^2 - 18x - 40$? Explain your reasoning.

2. Determine $P(-2)$, if $\frac{P(x)}{x+2} = x^3 - 4x^2 + 12x + 95$ R 47

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