

Pre-AP Precalculus

Unit 1 Pre-Assessment

Factoring

Factor the following expressions completely.

1] $3t^2 + 5t - 28$

2] $4x^3 - 8x^2y - 96xy^2$

3] $a^4 - 25a^2$

Complex Fractions

Simplify the following expressions.

4] $\frac{x}{\frac{3}{x} + \frac{1}{x}}$

5] $\frac{\frac{16}{m-1}}{\frac{15}{5} - \frac{16}{25}}$

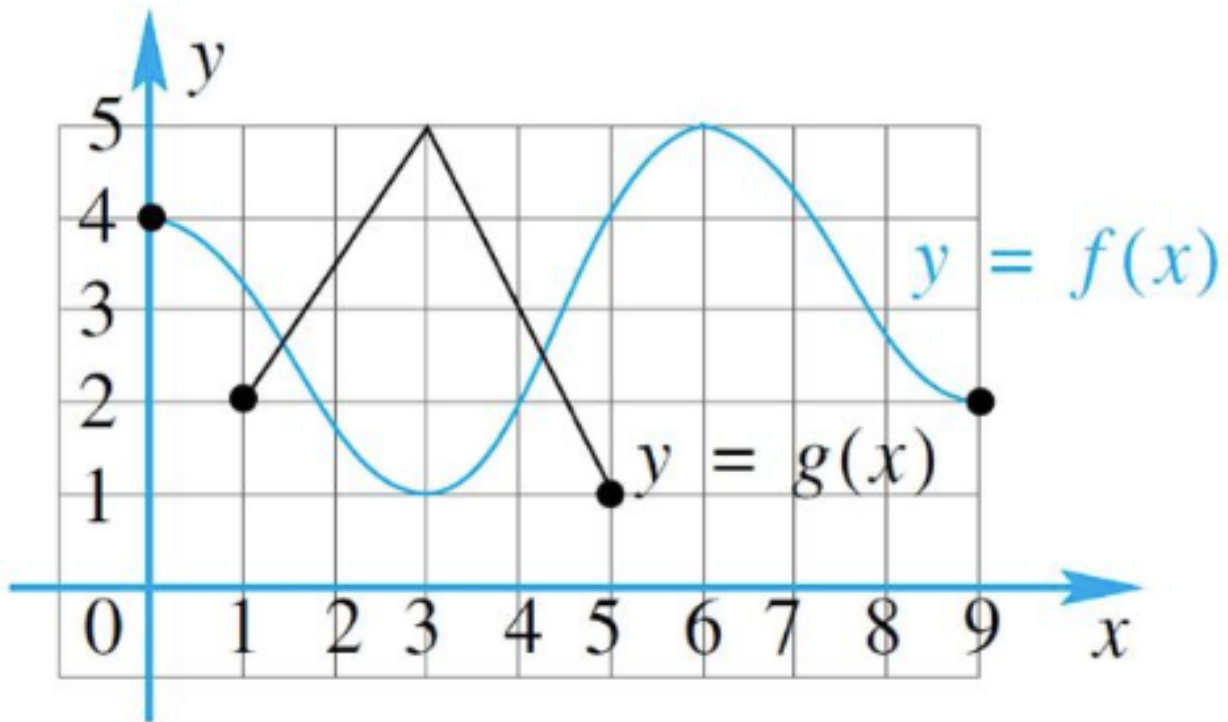
6] $\frac{\frac{x^2}{9} + \frac{1}{4}}{6x}$

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Functions

Evaluate the following.



7] $g(4)$

8] $f(0)$

9] Find x when $f(x) = 1$

10] $g(f(6))$