Name _ Key

Score

Find the quotient using long division.

1)
$$\frac{y^2 + 10y + 25}{y + 5}$$
 $\frac{y + 5}{y + 5}$ $\frac{y + 5}{y + 5}$ $\frac{y + 5}{y + 25}$ $\frac{y + 5}{5y + 25}$

2)
$$\frac{x^4 + 6x^2 + 8}{x^2 + 1} = x^2 + 5 + \frac{3}{x^2 + 1}$$

 $x^2 + 8x + 1$ $x^4 + 6x^2 + 6x^2 + 6x + 8$
 $x^2 + 6x + 1$ $x^4 + 6x^3 + 6x^2 + 6x + 8$
 $x^2 + 6x + 1$ $x^2 + 6x + 8$
 $x^2 + 6x + 1$ $x^2 + 6x + 8$
 $x^2 + 6x + 1$ $x^2 + 6x + 8$
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 $x^2 + 6x + 1$ $x^2 +$