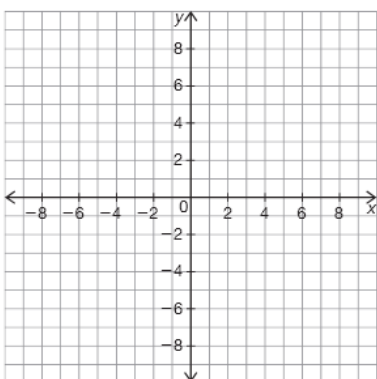


LESSON 2.2 Assignment

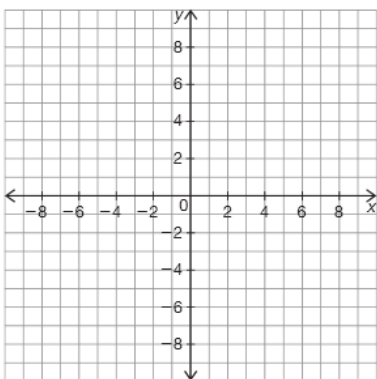
Name _____ Date _____

Function Sense
Translating Functions**2**

1. Graph $d(x) = (x + 3)^2 - 1$ without a calculator. Explain each of your steps.



2. Graph $g(x) = (x - 5)^2 - 4$ without a calculator. Explain each of your steps.

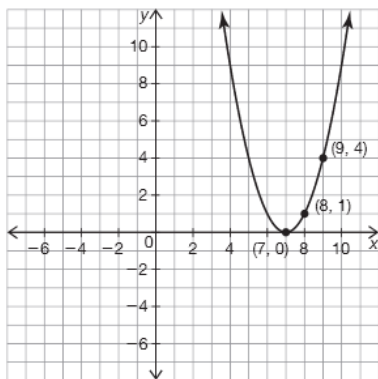


LESSON 2.2 Assignment

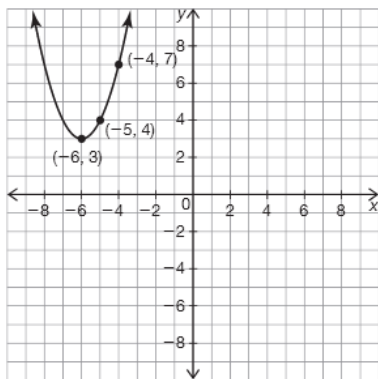
page 2

2

3. The function $h(x)$ is shown. If $f(x) = x^2$, write $h(x)$ in terms of $f(x)$.



4. The function $p(x)$ is shown. If $f(x) = x^2$, write $p(x)$ in terms of $f(x)$.



5. The function $t(x)$ is a translation of $f(x) = x^2$, and $t(x)$ has a vertex at $(25, -9)$. Write the function $t(x)$. Explain your reasoning.

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