## **DO NOW**

## 1.3 Functions and Their Graphs

\*\*\*You can use a graphing calculator to CHECK your work for finding domains and ranges - but YOU MUST be able to do the work without the calculator!!!

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Ex: pg 27; 26 (Evaluate the function as indicated. Determine its domain and range.)

$$f(x) = \begin{cases} x^2 + 2, & x \le 1 \\ 2x^2 + 2 & x > 1 \end{cases}$$
(a)  $f(-2)$  (b)  $f(0)$ 
(2)  $\frac{2}{7} + 2$   $0^2 + 2$ 
4 + 2
2
(c)  $f(1)$  (d)  $f(s^2 + 2) = 2x^2 + 2$ 
2
(c)  $f(1)$  (o)  $f(s^2 + 2) = 2x^2 + 2$ 
3
(c)  $f(1)$  (e)  $f(s^2 + 2) = 2x^2 + 2$ 
3
(e)  $f(1)$  (for  $f(s^2 + 2) = 2x^2 + 2$ 
3
(for  $f(1)$  (for  $f(1)$  (for  $f(1)$  (for  $f(2)$  (for  $f(3)$  (for  $f($ 

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## **HOMEWORK**

pg 27 - 28; 25, 27, 28,