Questions 1 – 3, evaluate each piecewise function.

1. $ A\left(x\right)=\left\{\begin{array}{c}-x+4, x\leq -2\\ x-2, x>2\end{array}\right.$

a. $A(-4)$ b. $A(-2)$ c. $A(0)$ d. $A(2)$ e. $A(5)$

2**.** $ B\left(x\right)=\left\{\begin{array}{c}x-3, x<-6\\ x^{2}, -4\leq x<3\\7, x>3\end{array}\right.$

a. $B(-7)$ b. $B(-2)$ c. $B(2)$ d. $B(3)$ e. $B(5)$

3. $ C\left(x\right)=\left\{\begin{array}{c} x+2, x\leq -5\\\left|x-3\right|+4, -5<x<3\\ -x, x>3\end{array}\right.$

a. $C(-6)$ b. $C(-5)$ c. $C(-2)$ d. $C(1)$ e. $C(4)$

Questions 4 – 7, graph the piecewise function and state the domain and range.

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4. $ D\left(x\right)= \left\{\begin{array}{c}1, x \leq -1\\ x+1, x>3\end{array}\right.$

Domain:

Range:

****5. $ E\left(x\right)= \left\{ \begin{array}{c}|x|, x \leq 1\\2x+3, x>1\end{array}\right.$

Domain:

Range:

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6. $ F\left(x\right)=\left\{\begin{array}{c}-2, x\leq -5\\x+5, -3\leq x<3\\ (x-5)^{2}+1, x>3\end{array}\right.$

Domain:

Range:

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7. $G\left(x\right)= \left\{\begin{array}{c}4, x<-2\\x^{2}, -2\leq x\leq 2\\-x, x>2\end{array}\right.$

Domain:

Range: