

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**HW # 15a:** Algebra 1 - Standard 9 - Functions

5 points

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**If  $f(x) = 3x + 2$  and  $g(x) = x^2 - x$ , find each value.**

Show work needed to justify your answer.

18.  $f(-2)$

19.  $g(2)$

20.  $g(-3)$

26.  $f(x) + 1$

22.  $f(2) + 1$

24.  $g(2) - 2$

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30. **TRANSPORTATION** The cost of riding in a cab is \$3.00 plus \$0.75 per mile. The equation that represents this relation is  $y = 0.75x + 3$ , where  $x$  is the number of miles traveled and  $y$  is the cost of the trip. Find and interpret  $f(17)$ .

31. **GYM MEMBERSHIP** The cost of a gym membership is \$75 plus \$30 per month. The equation that represents this relation is  $y = 30x + 75$ , where  $x$  is the number of months and  $y$  is the cost. Find and interpret  $f(12)$ .