## Name \_\_\_\_\_

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







12. Your parents are giving you money based on the number of points you score in the basketball game.

- Up to 7 points: No money
- More than 7 points up to 15 points: \$10
- More than 15 points: \$20

Write a piecewise function to show the money based on points.

13. When a diabetic takes long-acting insulin, the insulin reaches its	(40t + 100	$0 \le t \le 3$
peak effect on the blood sugar level in about three hours. This	220	3<1≤8
very low until the next injection. In a typical patient, the level of	) -80t + 860	8<†≤10
insulin might be modeled by the following function on the right.	60	$10 < t \le 24$

Here, f(t) represents the blood sugar level at time t hours after the time of the injection. If a patient takes insulin at 6 am, find the blood sugar level at each of the following times.

a. 7 am b. 11 am c. 3 pm d. 5 pm

Given the graph, determine the piecewise function (include the domain restriction):

