

7.7 Homework

Name: _____

(1-3) Write an exponential function $y = ab^x$ whose graph passes through the given points.

1) (1,3), (2,12)

2) (3,27), (5,243)

3) (2,6.4), (5,409.6)

4) A doctor measures an astronaut's pulse rate y (in beats per minute) at various times x (in minutes) after the astronaut has finished exercising. The astronaut's resting pulse rate is 70 beats per minute. Write an exponential model for the data, given the following information:

At 2 minutes, the pulse rate was 132 bpm

At 10 minutes, the pulse rate was 78 bpm

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