

# Algebra 2 Module 8 DBA 40 points Be sure to show and explain all work 10 points each

## Part 1 - Application

Be sure to show and explain all work using mathematical formulas and terminology.

A bouncy ball is dropped from a height of 16ft and always rebounds  $\frac{3}{4}$  of the distance of the previous fall. • What distance does it rebound the 5th time?

- What is the total distance the ball has travelled after this time?
- Draw a picture to represent the bouncing ball.



$$5\text{th bounce} = 16 + 16(0.25) + 16(0.25)^2 + 16(0.25)^3 + 16(0.25)^4 + 16(0.25)^5 = 21.328125$$

The distance the ball rebounds on the 5th time is  $\frac{1}{64}$  feet. The total equals 21.33ft.

## Part 2 - Find the error(s) and solve the problem correctly.

Find the 30th partial sum of

$$\sum_{n=1}^{\infty} 5n - 12$$

**Answer:**

The 30th partial sum would mean  $n = 30$  so substitute 30 into the given equation.

$$\sum_{n=1}^{\infty} 5n - 12$$

$$\sum_{n=1}^{30} 5(30) - 12$$

$$= 150 - 12$$

$$= 138$$

$$S_n = n/2(9^2 + 9n)$$

$$S_{30} = 30/2(-7 + 138)$$

# Module 8 DbA Study Guide Algebra 2

**McGraw-Hill Staff**



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