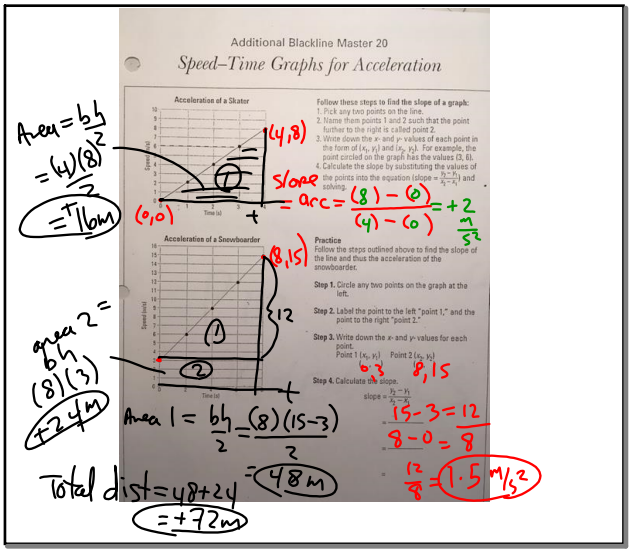
Additional Blackline Master 20
Speed–Time Graphs for Acceleration
Acceleration of a Skater
Follow these steps to find the slope of a graph:
Acceleration of a Snowboarder
Practice
Step 1. Circle any two points on the graph at the left.
Step 2. Label the point to the left "point 1," and the point to the right "point 2."
Step 3. Write down the x- and y- values for each point.
Step 4. Calculate the slope.
Area = bh/2 = (4)(8)/2 = 16m
(4,8)
slope = acc = (8) − (0) / (4) − (0) = +2 m/s²
(0,0)
(8,15)
12
area 2 = bh (8)(3) +24m
Area 1 = bh/2 = (8)(15−3)/2 = 48m
Total dist = 48+24 = +72m
15−3 = 12
8−0 = 8
12/8 = 1.5 m/s²

Mar 12-2:43 PM