Least Successful Questions:

1. reciprocal_graph (14% of students got this one correct)

According to Boyles' law, *PV* = constant. If a graph is plotted with the pressure *P* against the volume *V*, what would be the shape of graph.

- ○ horizontal straight line
- ○ upward curve
- ○ downward curve
- ○ diagonal straight line

2. Solve_for_R2v (20% of students got this one correct)

Solve for R_2:

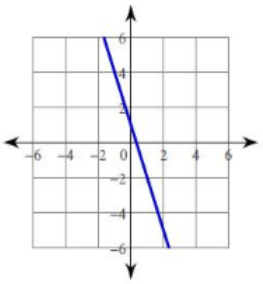
$$v_2 = \frac{vR_2}{R_1 + R_2}$$

- ○ $R_2 = \frac{v_2 R_1}{v - v_2}$
- ○ $R_2 = \frac{v_2 R_1}{2v}$
- ○ $R_2 = \frac{v_2 - R_1}{v}$
- ○ You can't solve for R_2

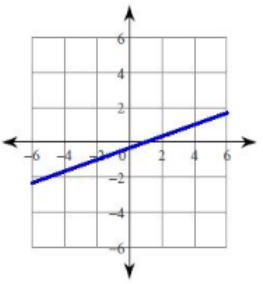
3. equation_from_graphv (33% of students got this one correct)

Determine the graph of 3x - y = -1.

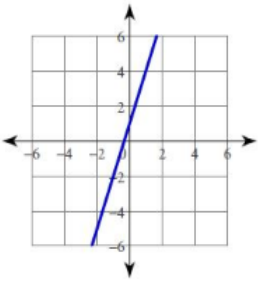
A)



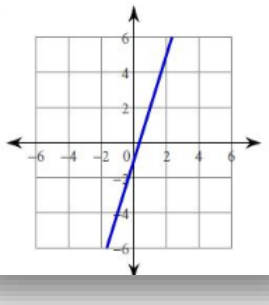
B)



C)

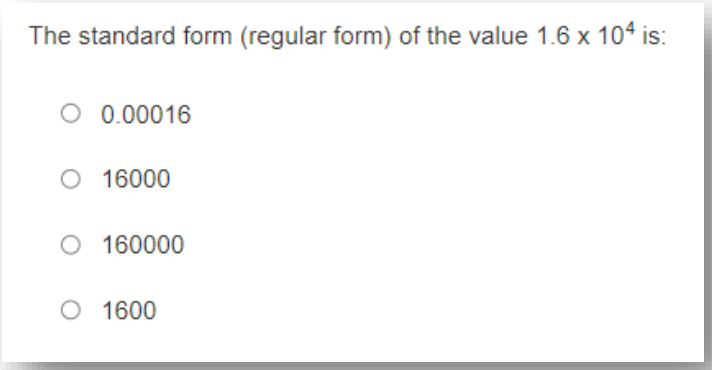


D)

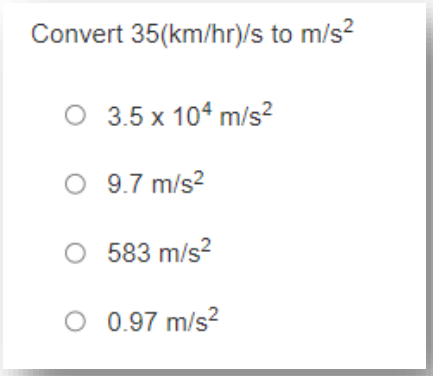


Most Successful Questions:

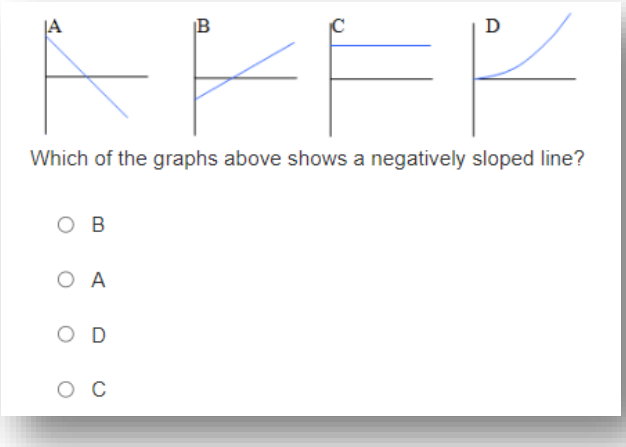
1. Scientific_Notation_convert_from_greaterv (100% of students got this one correct)



2. Convert_units_kmhrs_to_ms2v (100% of students got this one correct)



3. slope_of_line_graph_2nv (100% of students got this one correct)



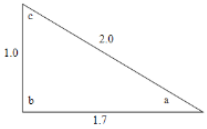
Best for Discriminating Strengths:

1. sig_fig_multv (N D-Value = 0.92)

State the correct number of significant digits which would appear in the answer of the following calculation: 32.46 x 5.7 = ?

- ○ 3 s.f.
- ○ 2 s.f.
- ○ 5 s.f.
- ○ 4 s.f.

2. tan_ratiov (N D-Value = 0.92)



The tangent of angle c would be:

- ○ $\frac{1.0}{2.0}$
- ○ $\frac{1.7}{1.0}$
- ○ $\frac{1.7}{2.0}$
- ○ $\frac{1.0}{1.7}$

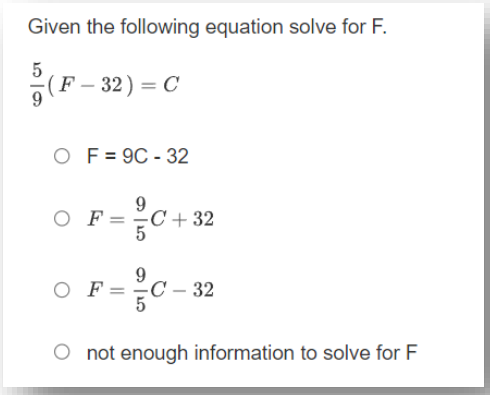
3. Scientific_Notation_convert_to_lessv (N D-Value = 0.85)

Express – 0.150 in scientific notation with the correct number of significant figures.

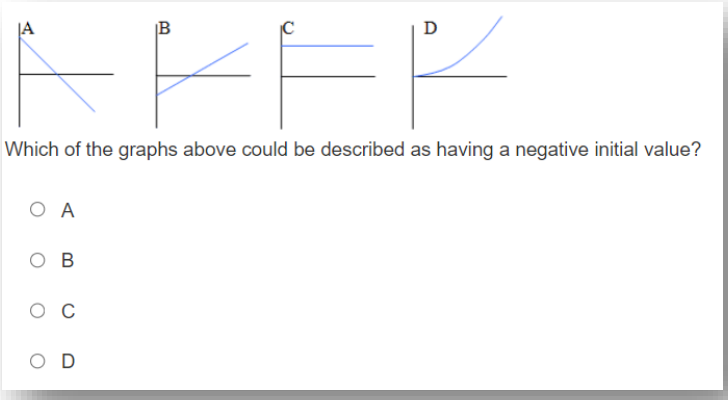
- ○ 1.5×10^{1}
- ○ -1.5×10^{-1}
- ○ -15×10^{-2}
- ○ -1.50×10^{-1}

Worst for Discriminating Strengths:

1. Solve_for_Fv (N D-Value = 0.00)



2. value_on_graphnv (N D-Value = 0.08)



3. number_sig_fig_in_sci_notv (N D-Value = 0.08)