Joint variation can be modeled as follows:

Which of the following shows the correct joint variation for the table?

f	g	d
1	2	8
0	1	0
2	0	0
4	−1	−16

a. $g = 4fd$
b. $f = 4gd$
c. $f = 5gd$

d. $g = 5fd$
e. $d = 5fg$
f. $d = 4fg$

Which of the following shows the correct joint variation for the table?

s	c	y
−3	−54	3
−5	−60	2
−3	−18	1
−2	−24	2

a. $c = 6sy$
b. $s = 7yc$
c. $c = 7sy$

d. $y = 6sc$
e. $s = 6yc$
f. $y = 7sc$

What is the value for k in the equation $c = kva$?

v	c	a
1	−30	5
2	−72	6
3	−90	5
5	−180	6

In the equation $z = kxy$, $k = -9$, $x = 9$, and $y = -9$. If y remains the same, what is the value of x when z is 324?

In the equation $z = kxy$, $z = -18$, $y = -2$, and $k = -9$. If x remains the same, what is the value of z when y is 0?

In the equation $z = kxy$, $z = -168$, $y = 6$, and $k = -4$. If x remains the same, what is the value of y when z is -28?

In the equation $z = kxy$, $x = -2$, $k = 9$, and $z = 54$. If y remains the same, what is the value of x when z is -27?