Alg 2 Bellwork Wednesday, December 4, 2013

26. If, for all x, $(x^{7a-2})^3 = x^{57}$, then $a=?$

F. 2
G. 3
H. $\frac{31}{5}$
J. $\frac{51}{21}$
K. 57

$x^{21a-6} = x^{57}$

$21a-6=57$

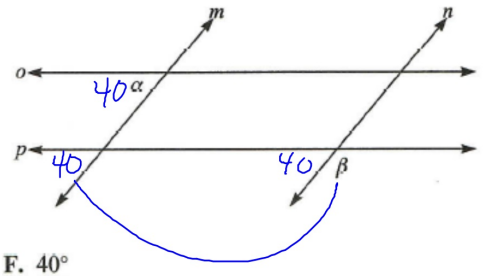
27. If 3 times a number n is added to 9, the result is negative. Which of the following gives the possible value(s) for n?

A. 3 only
B. 0 only
C. 6 only
D. all $n<-3$
E. all $n>-3$

$9+3n<0$

$n<-3$

32. In the figure below, lines m and n are parallel, lines o and p are parallel, and the measure of angle α is 40°. What is the measure of angle β?



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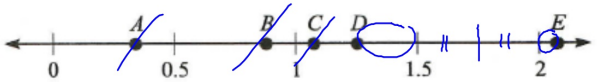
F. 40°
G. 50°
H. 110°
J. 140°
K. 180°

34. Among the points graphed on the number line below, which is the closest to $1\frac{3}{4}$?



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F. *A*
G. *B*
H. *C*
J. *D*
K. *E*