ALEKS Pre-Test ANSWERS

Section 1:

1. $16$
2. $-11$
3. $48$
4. $-3$
5. $545$
6. $85$
7. $7084$
8. $12 r3$
9. $35$
10. $11$
11. $6$
12. $1.367$
13. $1.47$
14. $20.516$
15. $12.5$

Section 2:

1. $\frac{1}{3}$
2. $\frac{26}{35}$
3. $\frac{4}{27}$
4. $\frac{10}{11}$

1. $\frac{17}{3}$
2. $-2\frac{1}{5}$
3. $>$
4. $x=\frac{33}{10} or 3\frac{3}{10}$
5. $x=\frac{25}{2} or 12\frac{1}{2}$
6. $x=\frac{31}{8} or 3\frac{7}{8}$

Section 3:

1. $56\%$
2. $\frac{7}{25}$
3. $17$
4. $\$18$

Section 4:

1. $25x^{2}$
2. $8x^{4}$
3. $\frac{7x^{3}}{10}$
4. $4.3\*10^{-4}$

Section 5:

1. $CD=18 units$
2. $A=21 units^{2}$
3. $A=20 units^{2}$
4. $A=36π units^{2}, C=12π units$
5. $V=100 units^{3}, SA=160 units^{2}$
6. $V=72π units^{3}, SA=66π units^{2}$
7. $40°$
8. $140°$
9. $75°$
10. No

Section 6:

1. $-16x+39y$
2. $18$
3. $x=23$
4. $x=\frac{2}{5}$
5. $n=-20$
6. $a=\frac{c-b}{4}$
7. $x>2$
8. $x\leq 7 and x>-5$
9. $x=8 and x=-4$

Section 7:

1. a. b. Ex. $y=-\frac{3}{2}x+4$
2. 
3. 
4. 
5. $y=2x-19$
6. $y=-\frac{4}{5}x+3$
7. $x int: \left(\frac{3}{2},0\right) y int: \left(0,6\right)$
8. $\left(2,10\right)$
9. $\left(1,-4\right) $

Section 8:

1. $\left\{2,4\right\}$
2. $-21$
3. Yes
4. $D=\left(-\infty ,\infty \right)$ $R=\left[1,\infty ) \right.$

Section 9:

1. $3\sqrt{6}$
2. $x=\sqrt{57} $
3. $d=\sqrt{85}$

Section 10:

1. $12x^{2}-28x+15$
2. $x^{2}-8x+16$
3. $\left(x-9\right)\left(x+6\right)$
4. $\left(x+2\right)\left(3x+5\right)$
5. $\left(x+3\right)\left(x-3\right)$
6. $x=\frac{-9\pm \sqrt{57}}{4}$
7. 