## Round-up Quiz 2

1. What are the values of $x$ for which $x^{2}-3 x-18=0$ ?
(a) $x=-6$;
(b) $x=-3$;
(c) $x=-3$ or $x=6$;
(d) $x=3$ or $x=6$;
(e) $x-2$ or $x=6$.
2. The inequality $2 x>x+10>-x$ means the same thing as which two inequalities?
(a) $2 x>x+10$ or $x+10>-x$;
(b) $2 x>x+10$ and $x+10>-x$.
3. Solving the correct choice in Question 2 gives which solutions to the inequality $2 x>x+10>-x$ ?
(a) $x>10$ or $x<-5$;
(b) $x>10$ or $x>-5$;
(c) $x>10$ and $x<-5$;
(d) $x>10$ and $x>-5$.
4. If $2 x+y=-8$ and $-4 x+2 y=16$, then what is the value of y ?
(a) $y=-4$;
(b) $y=-2$;
(c) $y=0$;
(d) $y=2$;
(e) $y=4$.
5. Myself and a friend are playing a high-low game with a deck of playing cards. I cut the deck and pick a Jack of Hearts then I replace the card. What is the probability that my friend choses a card higher than mine (we play the game with an ace higher than a king)?
