

- Factor. $-x^3 + 9x^2 - 18x$
- Solve the system by the elimination method:
$$4N_Q + 4N_D = 4$$
$$3N_Q - 4N_D = 10$$

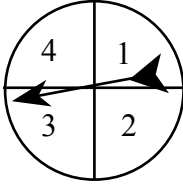
Factor.

- $x^3 + 7x^2 + 12x$
- $3x^2 - 12x - 15$
- $-20 + 15x + 5x^2$
- $2wxy^2 - 12wxy + 10wx$
- Factor: $-40x^2 - 30x + 45$
- Solve the system of equations by substitution.
$$N_Q - 4N_D = -16$$
$$-3N_Q + N_D = -7$$

Factor.

- $-x^3 + 10x^2 - 9x$
- $x^3 + 5x^2 + 6x$
- $3qrs^2 + 18qrs + 15qr$
- Solve the system by the elimination method:
$$2N_Q + 2N_D = 4$$
$$N_Q - 2N_D = -4$$
- Solve the system of equations by substitution.
$$3N_Q - 2N_D = 13$$
$$-N_Q + N_D = -5$$
- Two dice are rolled. What is the probability that the sum of the numbers rolled is 1?
- A single die is rolled two times. What is the probability that the next roll will produce a number greater than 1?

16. Kiko rolls a fair die two times and each time she rolls a six. What is the probability that on her next roll she will roll a two?
17. A bag contains 3 blue marbles and 4 pink marbles. A marble is drawn and dropped back into the bag. Another marble is drawn and dropped back into the bag. Both marbles were blue. If another marble is drawn, what is the probability that it is blue?
18. A fair coin is tossed three times. What is the probability that all three tosses will come up heads?
19. The spinner shown is spun 4 times. What is the probability that it will stop on 1, 4, 2 and 3 in that order?



Factor.

20. $x^2 + 6x - 7$

21. $x^2 - 9x + 20$

22. $-11g + g^2 + 28$

23. $x^2 + 3x - 28$

24. $x^2 + 17x + 72$

25. $11p + p^2 + 24$