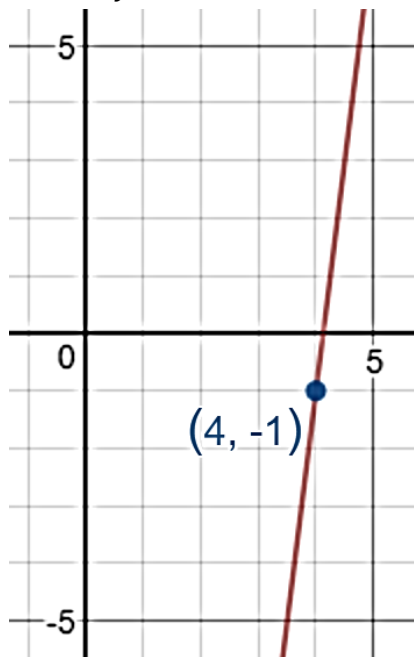
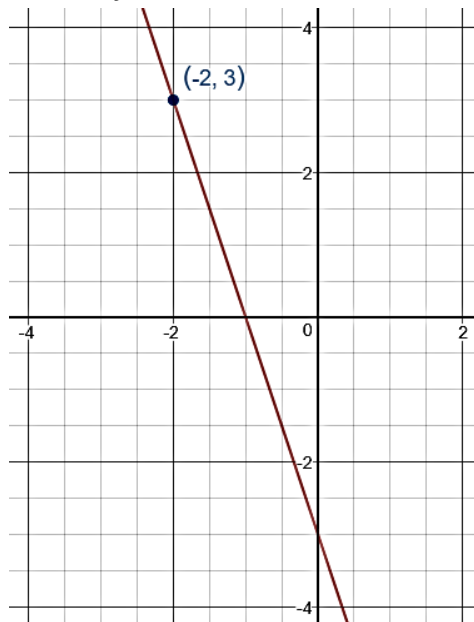


## Math 092/102 Exam 1 Practice Show-Your-Work Solutions

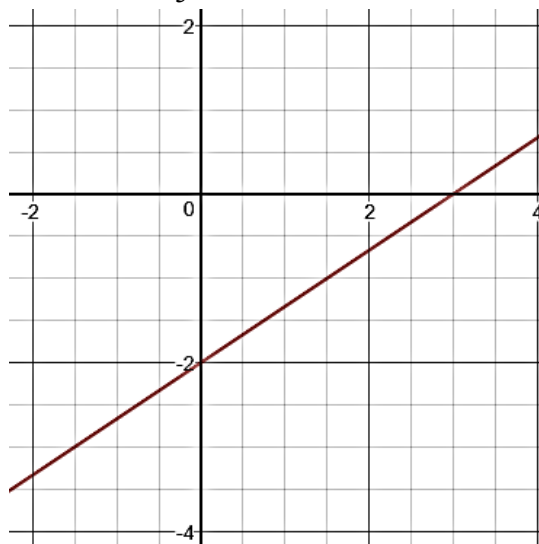
- 1) 23
- 2) 1880
- 3) 305
- 4)  $\frac{-13}{45}$
- 5)  $\frac{-10}{19}$
- 6)  $\frac{-23}{18}$
- 7)  $x = 9$
- 8)  $x = -1$
- 9)  $x = 12$
- 10)  $x = 30$
- 11)  $x = \frac{27}{11}$
- 12)  $x = \frac{-4}{5}, 4$
- 13) No solutions
- 14)  $x = 1, 3$
- 15)  $y + 1 = 8(x - 4);$   
 $y = 8x - 33$



16)  $y - 3 = -3(x + 2);$   
 $y = -3x - 3$

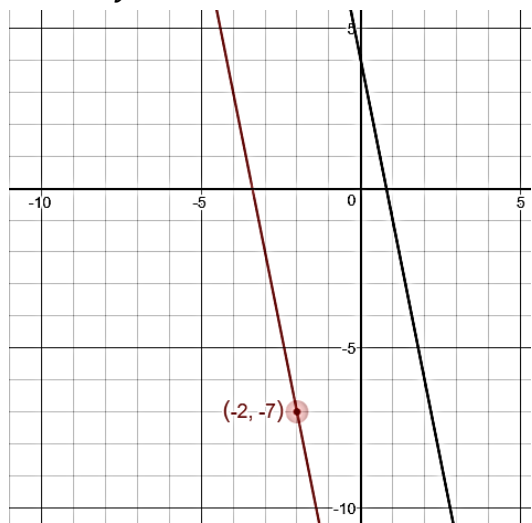


17)  $y = \frac{2}{3}x - 2$

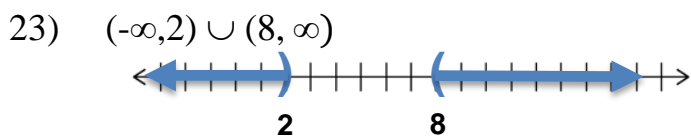
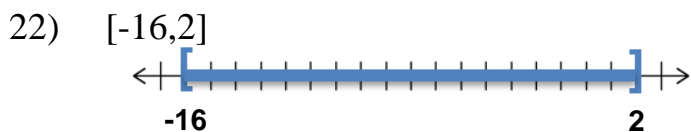
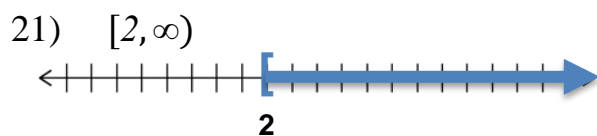
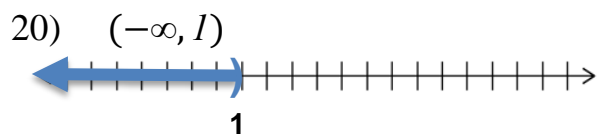
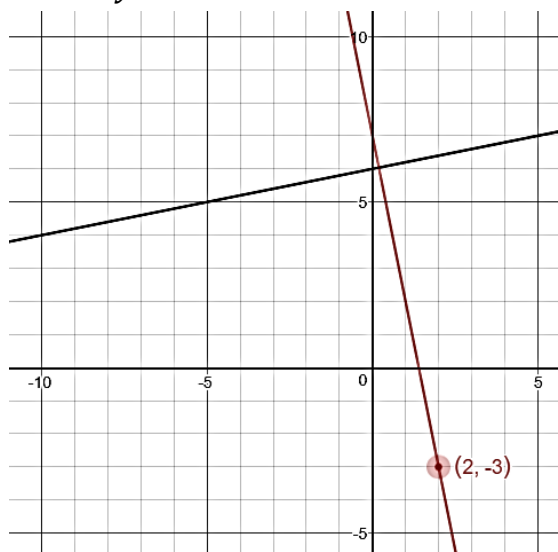


## Math 092/102 Exam 1 Practice Show-Your-Work Solutions

18)  $y + 7 = -5(x + 2);$   
 $y = -5x - 17$



19)  $y + 3 = -5(x - 2);$   
 $y = -5x + 7$



24)  $3\sqrt{2}$

25) 5

26)  $5x^2\sqrt{2x}$

27)  $4x$

28) 81

29)  $\frac{1}{27}$

30)  $\frac{1}{49}$

31)  $a^7$

32)  $\frac{y}{x^6}$

33)  $x^2$

34)  $\frac{1}{x^{35}}$

35)  $x^9$

36)  $8x^{13}y^9$

37)  $49y^8$

38)  $\frac{y^5}{2x}$

39)  $24x^{12}$

40)  $-5x^2 + 5x$

41)  $16x^3 - 4x^2 + 8x$

42)  $x^2 - 10x - 56$

43)  $12x^2 - 4x - 21$

44)  $7x^5 - 14x^3 + 6x^2 - 12$

45)  $9x^2 - 25$

46)  $x^2 + 22x + 121$

47)  $x^3 - 27$