Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

Homework sheet: Alg2H

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| 1. Page 7, questions

 1. Is $\frac{3}{17} $ rational or irrational? 5. Is $\sqrt{36} $ rational or irrational? 6. Is $\sqrt{19} $ rational or irrational? 7. Is $-\sqrt{16} $ rational or irrational? 17. $-\frac{2}{7}+\frac{3}{7}= $  19. $-\frac{11}{12}+\left(-\frac{5}{12}\right)= $  27. $-\frac{16}{5}-\left(-\frac{3}{5}\right)= $  28. $-\frac{1}{2}-\left(-\frac{1}{12}\right)= $ | 1. Page 12, questions

13. $-3\left(\frac{2}{-3}\right)= $21. $-\frac{9}{11}⋅\left(-\frac{11}{9}\right)= $37. $\frac{3}{5}÷\left(-6\right)= $41. $\frac{6}{7}÷\left(-\frac{9}{14}\right)= $ |
| 1. Page 8, questions

45. $\frac{1}{2}⋅\frac{2}{3}⋅\frac{3}{4}$46. $\frac{1}{2}+\frac{2}{3}+\frac{3}{4}$ | 1. Page 12, questions

Find the reciprocal of:46. $\left|-8\right| $47. $\frac{\left|7-19\right|}{-6} $ |
| 1. Page 24, questions

 12. Factor $3x+3y-3z$ 14. Factor $4a+8b-4$ 25. Collect like terms $x-6x$ 30. Collect like terms  $12a+3b-5a+6b$ 31. Collect like terms $4x-7+18x+25$ | 1. Page 24, questions

53. Simplify$$x-(5x+9)$$57. Simplify$$8x-9-(7-5x)$$59. Simplify$$-9\left(y+7\right)-6(y-3)$$61. Simplify$$8y-4(5y-6)$$ |