

Pre-Algebra Homework #19

1) Solve: $\frac{24x}{72} = \frac{36}{54}$

2) Solve: $\frac{162}{48} = \frac{81}{96x}$

3) Solve: $\frac{.5x}{.42} = \frac{.14}{.02}$

4) Solve: $\frac{\frac{36}{98}}{\frac{33}{18}} = \frac{\frac{7}{12}x}{2\frac{4}{9}}$

5) If a car uses 3 quarts of oil on a 630-mile trip, how many quarts will it use on a 1,250-mile trip?

6) If the dosage for a certain medicine calls for giving 6 ounces of medicine for every 49 pounds of body weight, how much medicine should you give to a person who weighs 196 pounds?

7) If it takes 22 gallons of gas to drive 418 miles, how many miles can you drive on 665 gallons of gas?

8) Solve: $-2(6x - 5) - 7x - (-2 - 1)^3 = -12^0 - 4(2x - 3) - 11 - 6x$

9) Solve: $-36 \div 6(-3 - 3) - 6(x - 7) - 9x - 4^3 = 2(4x - 5) - (-2 - 1)^3$

10) Solve: $-(3x - 3) - (-x - 6) = -10(3x - 8)^0 - 4(6x - 1) - 5^2$

11) Solve: $-(-2x + 1) - (-1 - 2)^3 - 3x = 7(8x - 9) - 9 \div 3(-1 - 2) - 1^8$

12) Solve: $\frac{2}{9}x - \frac{1}{18} = \frac{5}{6}x + \frac{7}{12}$

13) Solve: $-2^4 - (3x - 1) - 8x - (-1 - 4)^3 = -7^2 - 4(4x - 1) - 9^0 + x$

14) Solve: $\frac{1}{42}x + \frac{5}{22} = \frac{7}{28}x - \frac{3}{44}$

Copyright © 2013 by Dr. Joseph Phillips

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without prior written permission from the author.

Pre-Algebra Homework #19

15) Solve: $-3(2x - 2) - (-1 - 1)^5 - 7x = -2^2 - 4(5x - 3) - (-1 - 5) - 6x^0$

16) Solve: $\frac{4}{39}x - \frac{3}{52} = \frac{5}{8}x - \frac{1}{24}$

17) Solve: $-1^8 - (4x - 7) + (-2 - 2)^3 - 6x = -9^2 - 5(4x - 6) + (-2 - 3)^2 - 4x$

18) Solve: $\frac{5}{36} - \frac{7}{45}x = \frac{7}{54} - \frac{1}{40}x$

19) Solve: $-12^0 - 42 \div 6(-5 - 2) - (7x - 2) - 3x - 3^5 = -2(4x - 6) - (-3 - 1)^2 - x$

20) Solve: $\frac{1}{96} + \frac{5}{98}x = \frac{7}{32} - \frac{11}{56}x$

Copyright © 2013 by Dr. Joseph Phillips

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without prior written permission from the author.