Mathematics Preparation For High School Chemistry
Isolation Of Variables

Student Examples

1. $x + 7 = 24$

2. $x - 14 = 9$

3. $3x = 65$

4. $12 = x/7$

5. $.35 = 3(5x + 17)$

6. $(x/.8) + 7 = 16 + 4x$

Student Problems

1. $x + 18 = 590$

2. $x - 23 = 56$

3. $35x = 12.9$

4. $62 = x/3.5$

5. $500 = 2(12x - 49)$

6. $7x + 15 = 4x - 5$

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Isolation Of Variables

Student Examples

1. $x + 7 = 24$

$X+7-7 = 24-7$

$X = 17$

2. $x - 14 = 9$

$X-14+14 = 9+14$

$X = 23$

3. $3x = 65$

$\frac{3x}{3} = \frac{65}{3}$ $X = 21.7$

4. $12 = x/7$

$(12)(7) = (\frac{x}{7})(7)$

$X = 84$

5. $.35 = 3(5x + 17)$

$.35 = 15x + 51$

$-50.65 = 15x$

$X = -3.4$

6. $(x/.8) + 7 = 16 + 4x$

$\frac{X}{.8} = 9 + 4x$

$X = 7.2 + 3.2X$

$X = -3.27$

Student Problems

1. $x + 18 = 590$

$X = 572$

2. $x - 23 = 56$

$X = 79$

3. $35x = 12.9$

$X = .36$

4. $62 = x/3.5$

$X = 217$

5. $500 = 2(12x - 49)$

$X = 24.9$

6. $7x + 15 = 4x - 5$

$X = -3\frac{1}{3}$