

Page 165 • CUMULATIVE REVIEW (Ch. 1-3)

1. $-1(4 - 7)^2 + 6 = -1(-3)^2 + 6 = -1(9) + 6 = -9 + 6 = -3$

2. $2 - |(-3)(4) + (-1)^2| = 2 - |-12 + 1| = 2 - |-11| = 2 - 11 = -9$

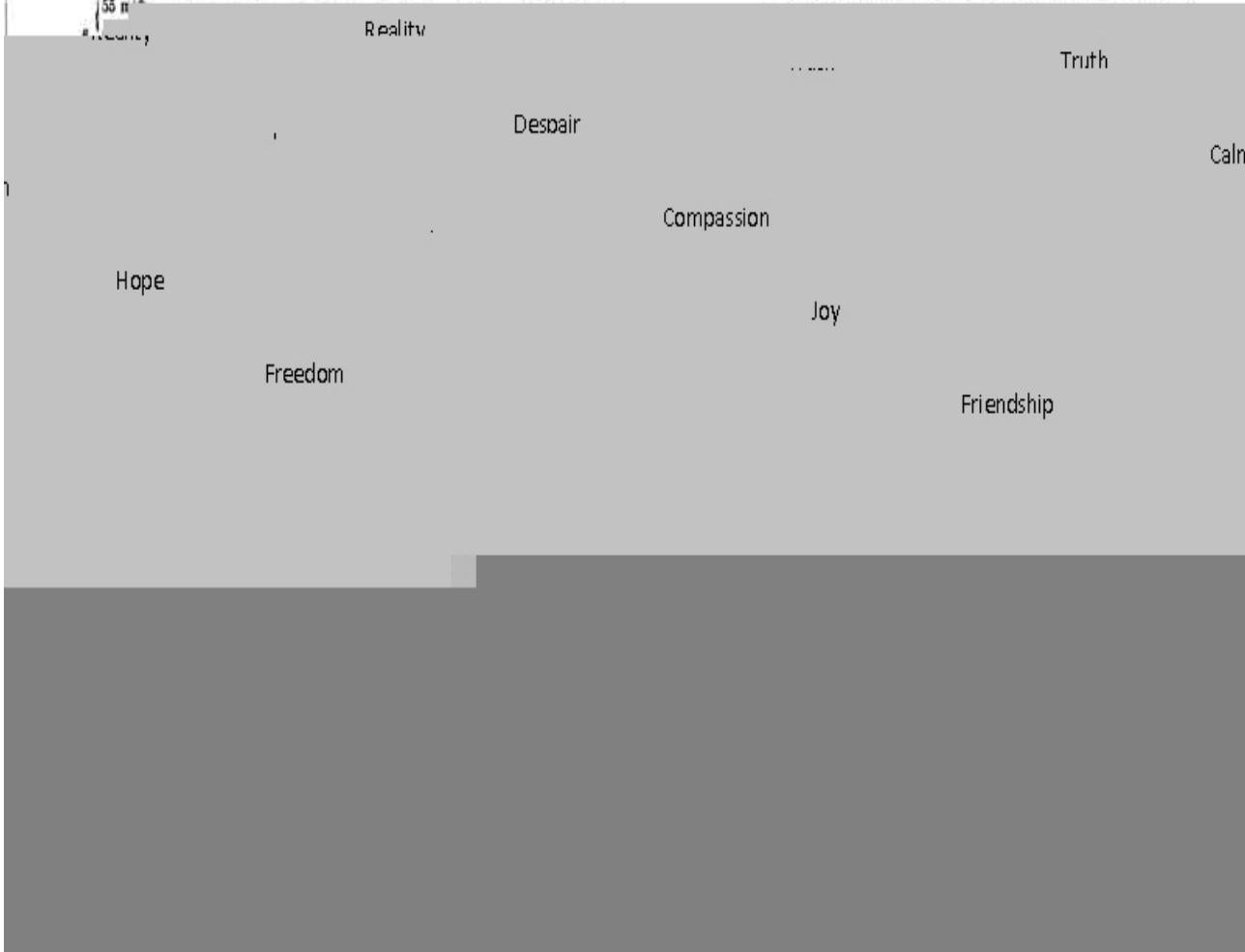
3. $2(x + y) - 3(y - x) = 2x + 2y - 3y + 3x = 5x - y$

4. $\frac{|a| + |b|}{|a + b|} = \frac{|-6| + |2|}{|-6 + 2|} = \frac{6 + 2}{|-4|} = \frac{8}{4} = 2$

5. Let $x =$ time, in hours, driving 55 mi/h; $5 - x =$ time, in hours, driving 30 mi/h;
 $30(5 - x) + 55x = 250$; $150 - 30x + 55x = 250$; $25x = 100$; $x = 4$; he spent 4 h at
 55 mi/h.

ALGEBRA II FINAL EXAM REVIEW SEMESTER I (Chapters 1 - 7)

**** Calculators will NOT be used on the final exam ****



6. ... Reality ... Truth
 ... Despair ... Calm
 ... Compassion
 Hope ... Joy
 Freedom ... Friendship