COLLEGE ALGEBRA QUIZ

- (1) Express $-\sqrt{-50}$ in terms of *i* Solution: $-5i\sqrt{2}$.
- (2) Express $\sqrt{-18} \cdot \sqrt{-20}$ in terms of *i* Solution: $-6\sqrt{10}$.
- (3) Express $\frac{\sqrt{-36}}{-\sqrt{-49}}$ in terms of *i* Solution: $\frac{-6}{7}$.
- (4) Simplify (8+2i) + (-5-4i) and write the answer in the form, a + bi where a and b are real numbers.
 Solution: 3 2i
- (5) Simplify (5-6i) (4-i) and write the answer in the form, a + bi where a and b are real numbers.
 Solution: 1 5i
- (6) Simplify (6 + 3i)(-4 2i) and write the answer in the form, a + bi where a and b are real numbers.
 Solution: -18 24i
- (7) Simplify $\frac{2-7i}{1-5i}$ and write the answer in the form, a + bi where a and b are real numbers. Solution: $\frac{37}{26} + \frac{3}{26}i$
- (8) Simplify i^{58} and write the answer in the form, a+bi where a and b are real numbers. Solution: -1