

MONTGOMERY COLLEGE
Department of Mathematics
Rockville Campus

See your instructors for assistance in using your calculator, if needed.

DECIMAL APPROXIMATIONS

Using your calculator find the decimal approximations, if possible, to three decimal places for the following radical expressions.

1. $\sqrt{92}$

6. $-2 \pm \sqrt{56}$

2. $-\sqrt{361}$

7. $\frac{8 - \sqrt{24}}{4}$

3. $8 - \sqrt{120}$

8. $\frac{41 \pm 3\sqrt{11}}{8}$

4. $-3 + 5\sqrt{17}$

9. $3 + \sqrt{-23}$

5. $2 \pm \sqrt{289}$

10. $\frac{-21 \pm 2\sqrt{36}}{3}$

Answers:

1. 9.592

6. 5.483, -9.483

2. -19.000

7. 0.775

3. -2.954

8. 6.369, 3.881

4. 17.616

9. Not a real number

5. 19.000, -15.000

10. -3.000, -11.000