

LT 4.1 Quick Check #1
 Good luck!

LT 4.1

Simplify

1) $\sqrt{\frac{24}{3}}$
 $\pm 2\sqrt{2}$

2) $\sqrt{-32x^6}$
 $4x^3i\sqrt{2}$

3) $\sqrt{-23} \cdot \sqrt{-46}$
 $-23\sqrt{2}$

+2

4) i^{25}
 i

5) $(7 + 4i) - (1 + 2i)$
 $6 + 2i$

6) $(3 + 4i)(3 - 4i)$
 25

+2

7) $\sqrt{216}$
 $\pm 6\sqrt{6}$

8) $3\sqrt{11} \cdot 3\sqrt{5}$
 $9\sqrt{55}$

LT 4.1 Quick Check #1

LT 4.1a

Good luck!

Simplify

1) $\sqrt{45}$

~~$\pm 3\sqrt{5}$~~
 $\pm 3\sqrt{5}$

2) $2\sqrt{5} \cdot \sqrt{7}$

$2\sqrt{35}$

3) $\sqrt{\frac{49}{4}}$

$\pm \frac{7}{2}$

4) $\sqrt{-81x^2}$

$9xi$

5) $\sqrt{-23} \cdot \sqrt{-46}$

$-23\sqrt{2}$

6) i^{11}

$-i$

7) $(-1 + 5i) - (-2 - 3i)$

$1 + 8i$

8) $(7 - 6i)(2 - 3i)$

$-4 - 33i$

$-4 + -33i$

LT 4.1 Quick Check #1

LT 4.1H

Good luck!

Simplify

1) $(10 - 4i) - (7 + 3i)$

$$3 - 7i$$

2) $(3 + 2i)(-2 + 4i)$ $\times 2$

$$-14 + 8i$$

3) $\sqrt{525}$

$$\pm 5\sqrt{21}$$

4) $54\sqrt{8} \cdot 2\sqrt{6}$

$$\pm 432\sqrt{3}$$

5) $\frac{6}{2}\sqrt{\frac{35}{5}}$

$$3\sqrt{7}$$

6) $\sqrt{-52x^3y^6}$

$$2xy^3i\sqrt{13x}$$

7) $3\sqrt{-24x^3} \cdot 2\sqrt{-18y^4}$ $\times 2$

$$-72xy^2\sqrt{3x}$$

8) i^{63}

$$-i$$

