

1. Find the value of
- $x$
- such that

$$\sqrt{8-20x} - 6 = 0.$$

- ☒  $-\frac{7}{5}$
- ☐  $\frac{1}{10}$
- ☐  $-560$
- ☐  $-\frac{1}{10}$

2. Find the value of
- $x$
- such that

$$\sqrt{10-19x} - 10 = 0.$$

- ☐  $\frac{90}{19}$
- ☐  $-1710$
- ☐  $0$
- ☒  $-\frac{90}{19}$

3. Find the value of
- $x$
- such that

$$\sqrt{14x+15} - 20 = 0.$$

- ☒  $\frac{55}{2}$
- ☐  $\frac{5}{14}$
- ☐  $\frac{415}{14}$
- ☐  $5390$

4. Solve
- $\sqrt{14-23u} - 5 = 0$
- for
- $u$
- .

- ☐  $-\frac{9}{23}$
- ☒  $-\frac{11}{23}$
- ☐  $\frac{9}{23}$
- ☐  $-253$

5. Calculate the value of
- $q$
- such that

$$\sqrt{7-18q} - 3 = 0.$$

- ☐  $-36$
- ☒  $-\frac{1}{9}$
- ☐  $\frac{2}{9}$
- ☐  $-\frac{8}{9}$

6. Find the value of
- $x$
- such that

$$\sqrt{17x+18} - 22 = 0.$$

- ☒  $\frac{466}{17}$
- ☐  $7922$
- ☐  $\frac{4}{17}$
- ☐  $\frac{502}{17}$

7. What is the value of  $s$  such that  $\sqrt{4-14s}-3=0$ ?

☐  $-70$

☐  $\frac{1}{14}$

☒  $-\frac{5}{14}$

☐  $-\frac{13}{14}$

8. Solve the equation  $\sqrt{6x+13}-8=0$ .

☐  $-\frac{5}{6}$

☐  $306$

☐  $\frac{77}{6}$

☒  $\frac{17}{2}$

9. Solve  $\sqrt{17-9x}-17=0$  for  $x$ .

☒  $-\frac{272}{9}$

☐  $\frac{272}{9}$

☐  $0$

☐  $-2448$

10. Solve the equation  $\sqrt{17-10m}-8=0$ .

☐  $-470$

☐  $-\frac{9}{10}$

☒  $-\frac{47}{10}$

☐  $\frac{9}{10}$

11. Calculate the value of  $w$  such that

$$\sqrt{7 - 14w} - 10 = 0.$$

☐ -1302

☐  $-\frac{107}{14}$

☒  $-\frac{93}{14}$

☐  $-\frac{3}{14}$

12. Find the value of  $x$  such that

$$\sqrt{12 - 16x} - 8 = 0.$$

☒  $-\frac{13}{4}$

☐ -832

☐  $-\frac{1}{4}$

☐  $\frac{1}{4}$

13. Solve  $\sqrt{21y + 14} - 10 = 0$  for  $y$ .

☐ 1806

☐  $-\frac{86}{21}$

☒  $\frac{86}{21}$

☐  $-\frac{4}{21}$

14. Find the value of  $q$  such that

$$\sqrt{11 - 8q} - 11 = 0.$$

☒  $-\frac{55}{4}$

☐ 0

☐ -880

☐  $\frac{55}{4}$

15. What is the value of  $x$  such that  $\sqrt{15x+6} - 18 = 0$ ?

- ☒  $\frac{106}{5}$
- ☐  $\frac{4}{5}$
- ☐ 4770
- ☐  $-\frac{106}{5}$

16. What is the value of  $a$  such that  $\sqrt{6a+20} - 13 = 0$ ?

- ☐  $-\frac{7}{6}$
- ☒  $\frac{149}{6}$
- ☐ 894
- ☐  $-\frac{149}{6}$

17. Find the value of  $x$  such that  $\sqrt{17x+8} - 18 = 0$ .

- ☐ 5372
- ☒  $\frac{316}{17}$
- ☐  $\frac{332}{17}$
- ☐  $\frac{10}{17}$

18. Solve the equation  $\sqrt{14x+19} - 6 = 0$ .

- ☐  $-\frac{13}{14}$
- ☒  $\frac{17}{14}$
- ☐ 238
- ☐  $-\frac{17}{14}$

19. Calculate the value of  $x$  such that

$$\sqrt{18 - 8x} - 10 = 0.$$

- ☒  $-\frac{41}{4}$
- ☐  $-656$
- ☐  $1$
- ☐  $-\frac{59}{4}$

20. Solve the equation

$$\sqrt{7z + 10} - 11 = 0.$$

- ☒  $\frac{111}{7}$
- ☐  $777$
- ☐  $\frac{131}{7}$
- ☐  $\frac{1}{7}$