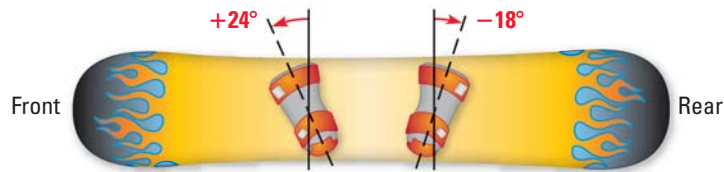


47. **SNOWBOARDS** Snowboarders can rotate the shoe bindings on their snowboards. The binding setup shown below is written $+24^\circ/-18^\circ$. This means that the front angle is 24° counterclockwise from vertical, and the rear angle is 18° clockwise from vertical.



- a. An instructor suggests a binding setup of $+30^\circ/+15^\circ$ for beginners. Your setup is initially $+24^\circ/-4^\circ$. Find the changes in angle measures needed to match the instructor's suggestion.
- b. A mirror setup is a setup of $+n^\circ/-n^\circ$ where n is between 0 and 90. Your setup is initially $+13^\circ/-6^\circ$. You change the front angle measure by -3° . Find the change in the rear angle measure needed for a mirror setup.
48. **CHALLENGE** Greenwich Mean Time (GMT) is the time at the Royal Observatory in Greenwich, England. A location that is $+n$ hours from GMT is n hours ahead of GMT, and a location that is $-n$ hours from GMT is n hours behind GMT. Costa Rica is -6 hours from GMT, and India is $+5.5$ hours from GMT. If it is 7:45 A.M. in India, what time is it in Costa Rica?



MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

Lesson 1.6;
TAKS Workbook

49. **TAKS PRACTICE** The domain of the function $y = 3x - 1$ is 2, 5, and 10. What is the range of the function? **TAKS Obj. 2**
- (A) 4, 14, and 29 (B) 5, 11, and 14 (C) 5, 11, and 29 (D) 5, 14, and 29

REVIEW

TAKS Preparation
p. 480;
TAKS Workbook
Texas Oversight

50. **TAKS PRACTICE** How many times greater is the area of a circle with a diameter of $4x$ units than the area of a circle with a diameter of x units? **TAKS Obj. 8**
- (F) 2 (G) 4 (H) 8 (J) 16

QUIZ for Lessons 2.1–2.3

1. Tell whether each of the following numbers is a whole number, an integer, or a rational number: $-\frac{5}{6}$, -8.2 , 0 , -9 . Then order the numbers from least to greatest. (p. 64)

Find the sum or difference.

2. $5 + (-36)$ (p. 74) 3. $-8.2 + (-2.3)$ (p. 74) 4. $3\frac{1}{2} + (-2)$ (p. 74)
5. $-18 - (-9)$ (p. 80) 6. $-11.2 - 21.7$ (p. 80) 7. $4\frac{1}{2} - (-\frac{1}{5})$ (p. 80)

Evaluate the expression when $x = 2.5$ and $y = -3.4$. (p. 80)

8. $x + y - 9$ 9. $x - (y - 5.1)$ 10. $12.1 - (y - x)$

