FORRESIER TURNS 41 Holdy (3) ROH OR IRP? Warmup How many mins has she (4x1/2x-1)(31/6x +4) a) = b) V12 3) V6+V3 been alive? 4XV2x -1 41 yes 365 days 24 hes whin 3/10/12/12/23-3/14 4 1/0x1/2x 21549600min 2x1/8x2-31/ex +/6x1/2x-4 12x.2.x13-31/6x +16x1/2x-4 24x213-316x+16x12x-4

Rational or Irrational

Identify the following as rational or irrational.

1)
$$\frac{2}{3}$$

2)
$$\sqrt{27}$$

5)
$$\sqrt{147}$$

6)
$$\sqrt{100}$$

7)
$$\sqrt[3]{17}$$

8)
$$2\frac{4}{5}$$

11)
$$\sqrt{27} + \sqrt{3}$$

13)
$$3 + \sqrt{5}$$

14)
$$3\sqrt{5} - \sqrt{20}$$

15)
$$2\sqrt{10} \cdot \sqrt{20}$$

16)
$$\sqrt{10} \cdot 4\sqrt{10}$$

19)
$$\frac{5}{6} + \frac{3}{4}$$

$$20)$$
 $20.35 + 2.45$

Identify each of the following as rational or irrational. Then choose the appropriate rule that justifies your answer.

Rules:

- A. The sum of two rational numbers is always rational.
- B. The sum of two irrational numbers is sometimes irrational.
- C. The sum of two irrational numbers is sometimes rational.
- D. The sum of one rational number and one irrational number is always irrational.
- E. The product of two rational numbers is always rational.
- F. The product of two irrational numbers is sometimes rational.
- G. The product of two irrational numbers is sometimes irrational.
- H. The product of one rational number and one irrational number is sometimes irrational.
- I. The product of one rational number and one irrational number is sometimes rational.

21)
$$6 + \sqrt{4} = 8$$

Rat + Rat = Rat

23)
$$\sqrt{6} + 8$$

24)
$$\sqrt{10} \cdot \sqrt{3} = \sqrt{30} = \text{decimal}$$
 $|PR \cdot |PR = |PR | G$

25)
$$\sqrt{12} \cdot \sqrt{3}$$

26)
$$\sqrt{5} + \sqrt{15}$$

27)
$$\sqrt{5} \cdot 0$$

28)
$$\sqrt{7} \cdot 18$$

29)
$$3\sqrt{5} - 3\sqrt{5}$$

30)
$$3\sqrt{2} \cdot \sqrt{8}$$