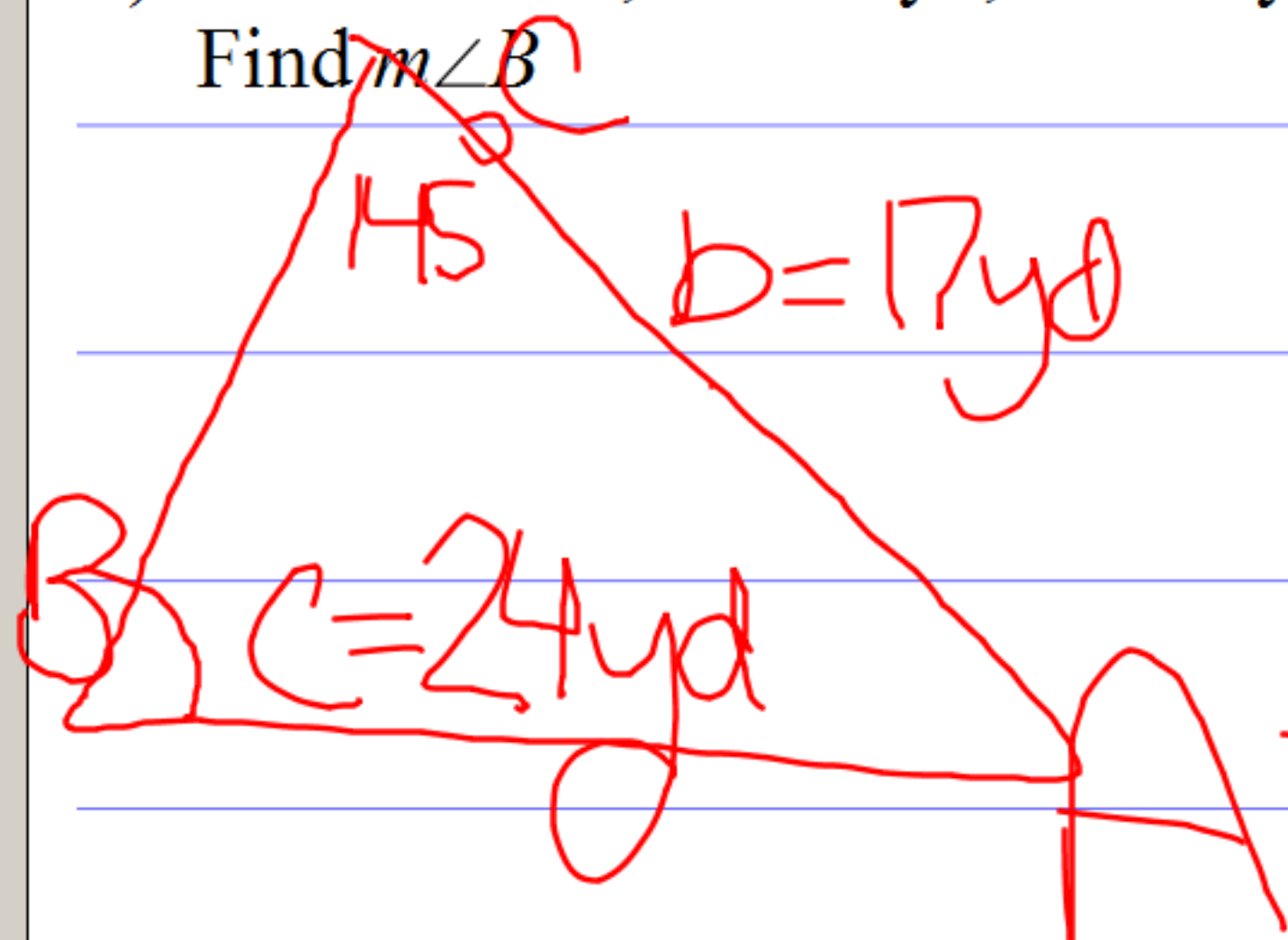


Find each measurement indicated. Round your answers to the nearest tenth.

8) $m\angle C = 145^\circ$, $b = 17$ yd, $c = 24$ yd

Find $m\angle B$



$$\begin{aligned} a &= \\ b &= 17 \text{ yd} \\ c &= 24 \text{ yd} \end{aligned}$$

$$\begin{aligned} \angle A &= \\ \angle B &= 23.97^\circ \\ \angle C &= 145^\circ \end{aligned}$$

$$\frac{\sin C}{c} = \frac{\sin B}{b}$$

$$\frac{\sin 145}{24} = \frac{\sin B}{17}$$

$$\frac{17 \sin 145}{24} = \frac{24 \sin B}{24}$$

$$\begin{aligned} \sin B &= 0.4063 \\ B &= 23.97 \end{aligned}$$

$$B = 24^\circ$$

Show formula and work to find the total value of the investment after the time given.

3) \$28,000 at 14% compounded quarterly for 5 years

$$\frac{0.14}{4}$$

$$n = 5 \times 4$$
$$n = 20$$

$$A = P(1+i)^n$$

$$= 0.035$$

$$A = 28,000(1 + 0.035)^{20}$$

$$A = \$55,714.08$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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Jump



1-up

Show formula and work to find the total value of the investment after the time given.

- 6) \$30,000 at 13% compounded annually for 10 years

$$A = 30,000(1 + 0.13)^{10}$$

Show formula and work to find the total value of the investment after the time given.

7) \$43,700 at 4% compounded
daily for 4 years

$$\frac{0.04}{365}$$

$$365 \times 4 = 1460$$

$$A = P(1 + i)^n$$

$$A = 43,700(1 + 0.00010958)$$

$$A = 51,287.60$$

Show formula and work to find the total value of the investment after the time given.

8) \$90 at 10% compounded quarterly for 2 years

$$\frac{0.10}{4} = 0.025$$

$$A = P(1 + i)^n \quad n = 2 \times 4 = 8$$

$$A = 90(1 + 0.025)^8$$

$$A = 109.66$$

Show formula and work to find the total value of the investment after the time given.

- 9) \$25,000 at 5% compounded semiannually for 2 years

$$A = P(1 + i)^n$$


$$= 25,000(1 + 0.025)^4$$

$$25000(1.025)$$

$$25000(1.1038)$$

$$= \$27,595.32$$

$$\frac{0.05}{2} = 0.025$$
$$2 \times 2 = 4$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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1-up


Show formula and work to find the total value of the investment after the time given.

$$\frac{0.11}{4} = 0.0275$$
$$2 \times 4 = 8$$

- 10) \$29,200 at 11% compounded quarterly for 2 years

$$A = P(1 + i)^n$$
$$29,200(1 + 0.0275)^8$$

$$= \$36,277.50$$

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Jump



1-up

Show formula and work to find the total value of the investment after the time given.


12) \$330 at 16% compounded quarterly for 1 year

$$\frac{0.16}{4} = 0.04$$

$$A = P(1 + i)^n$$

$$A = 330(1 + 0.04)^4$$

$$A = \$386.05$$

☒ Question numbers ☐ Show answers
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1-up

Show formula and work to find the total value of the investment after the time given.

14) \$290 at 14% compounded
annually for 2 years

$$A = P(1 + i)^n$$

$$A = 290($$

Show formula and work to find the total value of the investment after the time given.

13) \$240 at 1% compounded
quarterly for 4 years

$$A = P(1+i)^n$$

$$A = 240(1 + 0.0025)^{16}$$

$$A = \$249.78$$

$$\frac{0.04}{4}$$

$$= 0.0025$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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Jump



1-up

Show formula and work to find the total value of the investment after the time given.

15) \$27,000 at 16% compounded
semiannually for 4 years

$$A = P(1 + i)^n$$

$\frac{0.16}{2}$ $\frac{4 \times 2}{8}$

$$A = 27000(1.08)^8$$

$$A = 27000(1.851)$$

$$A = \$49,975.12$$

Present Value

You want to invest enough money to have \$3200 for tuition in 2 yrs.

If you invest your money at 6%, compounded monthly, how much do you need to invest now.

$i = \% \div \text{times a year}$

$$0.06 \div 12 = 0.005$$

$n = \text{\# of years} \times \text{times a year}$

p. 439

2. a) \$5000 in 4 years at 6% annually

$$PV = A(1+i)^{-n}$$

$$= 5000(1 + 0.06)^{-4}$$

$$= 5000(1.06)^{-4}$$

$$= \$3960.47$$

$$\begin{array}{r} 0.06 \div 1 \\ = 0.06 \\ 4 \times 1 \\ = 4 \end{array}$$

$$PV = A(1+i)^{-n}$$

$$2000(1+0.02)^{-4}$$

$$P = 1847.69$$

finish

$$2 < d$$

$$3a b < d$$

$$\frac{0.04}{2}$$

$$0.02$$

$$\left. \begin{array}{l} 2pp \\ 439- \\ 4v \end{array} \right\}$$

$$\begin{aligned}
 PV &= A(1+i)^{-n} \\
 &= 3200(1+0.005)^{-24} \\
 &= 3200(1.005)^{-24}
 \end{aligned}$$

$$PV \quad \$2838.99$$

∴ you need to invest \$2838⁹⁹ in the bank