Solve. Check your answer.

14. $\dfrac{3}{a-4} = \dfrac{a}{a-2}$

15. $\dfrac{r}{2} - \dfrac{2}{r} = \dfrac{5}{6}$

25. $\dfrac{8}{x-2} = \dfrac{2}{x+1}$

26. $\dfrac{12}{3n-1} = \dfrac{3}{n}$

27. $\dfrac{x}{x+4} = \dfrac{x}{x-1}$

28. $\dfrac{9}{x+5} = \dfrac{4}{x}$

30. $\dfrac{1}{2x} + \dfrac{1}{4x} = \dfrac{7}{8x}$

32. $\dfrac{9}{m} - \dfrac{3}{2m} = \dfrac{15}{m}$

34. $\dfrac{r}{3} - 3 = -\dfrac{6}{r}$