



答え合わせ

$$(1) \frac{1}{\sqrt{5}+1}$$

$$\frac{1 \times (\sqrt{5}-1)}{(\sqrt{5}+1) \times (\sqrt{5}-1)} = \frac{\sqrt{5}-1}{\sqrt{25}-1^2} = \frac{\sqrt{5}-1}{5-1} = \frac{\sqrt{5}-1}{4}$$

$$(2) \frac{2}{\sqrt{7}-1}$$

$$\frac{2 \times (\sqrt{7}+1)}{(\sqrt{7}-1) \times (\sqrt{7}+1)} = \frac{2(\sqrt{7}+1)}{\sqrt{49}-1^2} = \frac{2(\sqrt{7}+1)}{7-1} = \frac{2(\sqrt{7}+1)}{6} = \frac{\sqrt{7}+1}{3}$$

約分!

$$(3) \frac{2}{\sqrt{3}+1}$$

$$\frac{2 \times (\sqrt{3}-1)}{(\sqrt{3}+1) \times (\sqrt{3}-1)} = \frac{2(\sqrt{3}-1)}{\sqrt{9}-1^2} = \frac{2(\sqrt{3}-1)}{3-1} = \frac{2(\sqrt{3}-1)}{2} = \sqrt{3}-1$$

約分!

約分!

$$(4) \frac{1}{3-\sqrt{5}}$$

$$\frac{1 \times (3+\sqrt{5})}{(3-\sqrt{5}) \times (3+\sqrt{5})} = \frac{3+\sqrt{5}}{3^2-\sqrt{25}} = \frac{3+\sqrt{5}}{9-5} = \frac{3+\sqrt{5}}{4} = \frac{3+\sqrt{5}}{4}$$